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C07K 14/435, G01N 33/574(74) Agents: SMITH, DeAnn, F. et al.; Lahive & Cockfield,
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(54) Title: GENES COMPOSITIONS, KITS, AND METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF BREAST CANCER

(57) Abstract: The invention relates to compositions, kits, and methods for detecting, characterizing, preventing, and treating human breast cancers. A variety of novel markers are provided, wherein changes in the levels of expression of one or more of the markers is correlated with the presence of breast cancer.

INTERNATIONAL SEARCH REPORT

International Application No

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A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12N15/09 C07K14/435 G01N33/574

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, BIOSIS, MEDLINE, EMBL

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	BROWN M A ET AL: "PHYSICAL MAPPING, CLONING, AND IDENTIFICATION OF GENES WITHIN A 500-KB REGION CONTAINING BRCA1" PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, NATIONAL ACADEMY OF SCIENCE. WASHINGTON, US, vol. 92, 1 May 1995 (1995-05-01), pages 4362-4366, XP002017873 ISSN: 0027-8424 the whole document --- -/--	1

☒ Further documents are listed in the continuation of box C.☐ Patent family members are listed in annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WOOSTER R ET AL: "IDENTIFICATION OF THE BREAST CANCER SUSCEPTIBILITY GENE BRCA2" NATURE, MACMILLAN JOURNALS LTD. LONDON, GB, vol. 378, 1 December 1995 (1995-12-01), pages 789-792, XP002029512 ISSN: 0028-0836 the whole document ---	1
A	JI H ET AL: "IDENTIFICATION OF A BREAST CANCER-SPECIFIC GENE, BCSG1, BY DIRECT DIFFERENTIAL CDNA SEQUENCING" CANCER RESEARCH, AMERICAN ASSOCIATION FOR CANCER RESEARCH, BALTIMORE, MD, US, vol. 57, no. 4, 15 February 1997 (1997-02-15), pages 759-764, XP002065403 ISSN: 0008-5472 the whole document ---	1
X	DATABASE EMBL [Online] AC No: A1663075, 11 May 1999 (1999-05-11) MARRA M ET AL: "uk22d10.y1 Sugano mouse embryo mewa Mus musculus cDNA clone" XP002175764 Sequence with 74.5% identity to SEQ ID No:1 over 228 nucleotides abstract ---	1-13
X	DATABASE EMBL [Online] AC No: AC012424, 28 October 1999 (1999-10-28) BIRREN B ET AL: "Homo sapiens clone RP11-2L5" XP002175765 Sequence with 58.7% identity to SEQ ID No:1 over 138 nucleotides abstract -----	1-13

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 01/00798

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

Although claims 45, 54, 55 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-55 all partially

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-55 all partially

Nucleic acid molecules, vectors, host cells, polypeptides, antibodies, kits and methods relating to SEQ ID No:1

2. Claims: 1-55, all partially

Nucleic acid molecules, vectors, host cells, polypeptides, antibodies, kits and methods relating to SEQ ID No:2

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(72) Inventors: **LILLIE, James**; -. **XU, Yongyao**; -. **WANG, Youzhen**; -. **STEINMANN, Kathleen**; -.

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WO 01/51628 A2

(54) Title: **NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF BREAST CANCER**

(57) Abstract: The invention relates to compositions, kits, and methods for detecting, characterizing, preventing, and treating human breast cancers. A variety of novel markers are provided, wherein changes in the levels of expression of one or more of the markers is correlated with the presence of breast cancer.

NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR
IDENTIFICATION, ASSESSMENT, PREVENTION,
AND THERAPY OF BREAST CANCER

5 RELATED APPLICATIONS

The present application claims priority to U.S. provisional application serial no. 60/176,077, filed January 14, 2000, U.S. provisional application serial no. 60/189,167, filed March 14, 2000, U.S. provisional application serial no. 60/192,099, filed March 24, 2000, U.S. provisional application serial no. 60/193,480, filed March 29, 2000, U.S.
10 provisional application serial no. 60/205,230, filed May 15, 2000, U.S. provisional application serial no. 60/211,315, filed June 9, 2000, U.S. provisional application serial no. 60/220,534, filed July 25, 2000, all of which are expressly incorporated by reference.

FIELD OF THE INVENTION

15 The field of the invention is breast cancer, including diagnosis, characterization, management, and therapy of breast cancer.

BACKGROUND OF THE INVENTION

The increased number of cancer cases reported in the United States, and, indeed,
20 around the world, is a major concern. Currently there are only a handful of treatments available for specific types of cancer, and these provide no absolute guarantee of success. In order to be most effective, these treatments require not only an early detection of the malignancy, but a reliable assessment of the severity of the malignancy.

The incidence of breast cancer, a leading cause of death in women, has been
25 gradually increasing in the United States over the last thirty years. In 1997, it was estimated that 181,000 new cases were reported in the U.S., and that 44,000 people would die of breast cancer (Parker *et al*, 1997, *CA Cancer J. Clin.* 47:5-27; Chu *et al*, 1996, *J. Nat. Cancer Inst.* 88:1571-1579). While the pathogenesis of breast cancer is unclear, transformation of normal breast epithelium to a malignant phenotype may be
30 the result of genetic factors, especially in women under 30 (Miki *et al.*, 1994, *Science*, 266:66-71). The discovery and characterization of *BRCA1* and *BRCA2* has recently expanded our knowledge of genetic factors which can contribute to familial breast

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cancer. Germ-line mutations within these two loci are associated with a 50 to 85% lifetime risk of breast and/or ovarian cancer (Casey, 1997, *Curr. Opin. Oncol.* 9:88-93; Marcus *et al.*, 1996, *Cancer* 77:697-709). However, it is likely that other, non-genetic factors also have a significant effect on the etiology of the disease. Regardless of its origin, breast cancer morbidity and mortality increases significantly if it is not detected early in its progression. Thus, considerable effort has focused on the early detection of cellular transformation and tumor formation in breast tissue.

Currently, the principal manner of identifying breast cancer is through detection of the presence of dense tumorous tissue. This may be accomplished to varying degrees of effectiveness by direct examination of the outside of the breast, or through mammography or other X-ray imaging methods (Jatoi, 1999, *Am. J. Surg.* 177:518-524). The latter approach is not without considerable cost, however. Every time a mammogram is taken, the patient incurs a small risk of having a breast tumor induced by the ionizing properties of the radiation used during the test. In addition, the process is expensive and the subjective interpretations of a technician can lead to imprecision, *e.g.*, one study showed major clinical disagreements for about one-third of a set of mammograms that were interpreted individually by a surveyed group of radiologists. Moreover, many women find that undergoing a mammogram is a painful experience. Accordingly, the National Cancer Institute has not recommended mammograms for women under fifty years of age, since this group is not as likely to develop breast cancers as are older women. It is compelling to note, however, that while only about 22% of breast cancers occur in women under fifty, data suggests that breast cancer is more aggressive in pre-menopausal women.

It would therefore be beneficial to provide specific methods and reagents for the diagnosis, staging, prognosis, monitoring, and treatment of diseases associated with breast cancer, or to indicate a predisposition to such for preventative measures.

SUMMARY OF THE INVENTION

The invention relates to novel genes associated with breast cancer as well as methods of assessing whether a patient is afflicted with breast cancer. The methods of the present invention comprise the step of comparing the level of expression of a marker in a patient sample, wherein the marker is listed in Tables 1-6 and the normal level of

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expression of the marker in a control, *e.g.*, a sample from a patient without breast cancer. A significant difference between the level of expression of the marker in the patient sample and the normal level is an indication that the patient is afflicted with breast cancer. Preferably, a protein corresponding to the marker is a secreted protein or
5 is predicted to correspond to a secreted protein. Alternatively, the marker can correspond to a protein having an extracellular portion, to one which is normally expressed in breast tissue at a detectable level, or both.

In one method, the marker(s) are preferably selected such that the positive predictive value of the method is at least about 10%. Also preferred are embodiments of
10 the method wherein the marker is over- or under-expressed by at least two-fold in at least about 20% of stage 0 breast cancer patients, stage I breast cancer patients, stage IIA breast cancer patients, stage IIB breast cancer patients, stage IIIA breast cancer patients, stage IIIB breast cancer patients, stage IV breast cancer patients, grade I breast cancer patients, grade II breast cancer patients, grade III breast cancer patients, malignant breast
15 cancer patients, ductal carcinoma breast cancer patients, and lobular carcinoma breast cancer patients.

In one embodiment of the methods of the present invention, the patient sample is a breast tissue-associated body fluid. Such fluids include, for example, blood fluids, lymph and cystic fluids, as well as nipple aspirates. In another embodiment, the sample
20 comprises cells obtained from the patient. In another embodiment, the patient sample is *in vivo*.

In accordance with the methods of the present invention, the level of expression of the marker in a sample can be assessed, for example, by detecting the presence in the sample of:

- 25 • a protein or a fragment of the protein corresponding to the marker (*e.g.* using a reagent, such as an antibody, an antibody derivative, or an antibody fragment, which binds specifically with the protein or a fragment of the protein)
- a metabolite which is produced directly (*i.e.*, catalyzed) or indirectly by a
30 protein corresponding to the marker
- a transcribed polynucleotide (*e.g.* an mRNA or a cDNA), or fragment thereof, having at least a portion with which the marker is substantially

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homologous (*e.g.* by contacting a mixture of transcribed polynucleotides obtained from the sample with a substrate having one or more of the markers listed in Tables 1-6 fixed thereto at selected positions)

- a transcribed polynucleotide or fragment thereof, wherein the polynucleotide anneals with the marker under stringent hybridization conditions.

The methods of the present invention are particularly useful for patients with an identified breast mass or symptoms associated with breast cancer. The methods of the present invention can also be of particular use with patients having an enhanced risk of developing breast cancer (*e.g.*, patients having a familial history of breast cancer, patients identified as having a mutant oncogene, and patients at least about 50 years of age). The methods of the present invention may further be of particular use in monitoring the efficacy of treatment of a breast cancer patient (*e.g.* the efficacy of chemotherapy).

The methods of the present invention may be performed using a plurality (*e.g.* 2, 3, 5, or 10 or more) of markers. According to a method involving a plurality of markers, the level of expression in the sample of each of a plurality of markers independently selected from the markers listed in Tables 1-6 is compared with the normal level of expression of each of the plurality of markers in samples of the same type obtained from control humans not afflicted with breast cancer. A significantly enhanced level of expression of one or more of the markers listed in Tables 1-6 in the sample, relative to the corresponding normal levels, is an indication that the patient is afflicted with breast cancer. The markers of Tables 1-6 may also be used in combination with known breast cancer markers in the methods of the present invention.

In a preferred method of assessing whether a patient is afflicted with breast cancer (*e.g.*, new detection ("screening"), detection of recurrence, reflex testing), the method comprises comparing:

- a) the level of expression of a marker in a patient sample, wherein at least one marker is selected from the markers of Tables 1-6, and
- b) the normal level of expression of the marker in a control non-breast cancer sample.

A significant difference between the level of expression of the marker in the patient sample and the normal level is an indication that the patient is afflicted with breast cancer.

The methods of the present invention further include a method of assessing the efficacy of a test compound for inhibiting breast cancer in a patient. This method comprises comparing:

- a) expression of a marker in a first sample obtained from the patient and maintained in the presence of the test compound, wherein the marker is selected from the group consisting of the markers listed in Tables 1-6, and
- b) expression of the marker in a second sample obtained from the patient and maintained in the absence of the test compound.

A significantly lower level of expression of the marker in the first sample, relative to the second sample, is an indication that the test compound is efficacious for inhibiting breast cancer in the patient. For example, the first and second samples can be portions of a single sample obtained from the patient or portions of pooled samples obtained from the patient.

The invention further relates to a method of assessing the efficacy of a therapy for inhibiting breast cancer in a patient. This method comprises comparing:

- a) expression of a marker in a first sample obtained from the patient prior to providing at least a portion of the therapy to the patient, wherein the marker is selected from the group consisting of the markers listed in Tables 1-6, and
- b) expression of the marker in a second sample obtained from the patient following provision of the portion of the therapy.

A significantly lower level of expression of the marker in the second sample, relative to the first sample, is an indication that the therapy is efficacious for inhibiting breast cancer in the patient.

It will be appreciated that in these methods the "therapy" may be any therapy for treating breast cancer including, but not limited to, chemotherapy, radiation therapy and surgical removal of tissue, *e.g.*, a breast tumor. Thus, the methods of the invention may

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be used to evaluate a patient before, during and after therapy, for example, to evaluate the reduction in tumor burden.

The present invention therefore further comprises a method for monitoring the progression of breast cancer in a patient, the method comprising:

- 5 a) detecting in a patient sample at a first time point, the expression of a marker, wherein the marker is selected from the group consisting of the markers listed in Tables 1-6;
- b) repeating step a) at a subsequent time point; and
- c) comparing the level of expression detected in steps a) and b), and therefrom
- 10 monitoring the progression of breast cancer in the patient.

The invention also includes a method of selecting a composition for inhibiting breast cancer in a patient. This method comprises the steps of:

- a) obtaining a sample comprising cancer cells from the patient;
- b) separately maintaining aliquots of the sample in the presence of a
- 15 plurality of test compositions;
- c) comparing expression of a marker listed in Tables 1-6 in each of the aliquots; and
- d) selecting one of the test compositions which induces a lower level of
- expression of the marker in the aliquot containing that test composition,
- 20 relative to other test compositions.

In addition, the invention includes a method of inhibiting breast cancer in a patient. This method comprises the steps of:

- a) obtaining a sample comprising cancer cells from the patient;
- b) separately maintaining aliquots of the sample in the presence of a
- 25 plurality of test compositions;
- c) comparing expression of a marker listed in Tables 1-6 in each of the aliquots; and
- d) administering to the patient at least one of the test compositions which
- induces a lower level of expression of the marker in the aliquot
- 30 containing that test composition, relative to other test compositions.

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The invention also includes a kit for assessing whether a patient is afflicted with breast cancer. This kit comprises reagents for assessing expression of a marker listed in Tables 1-6.

5 In another aspect, the invention relates to a kit for assessing the suitability of each of a plurality of compounds for inhibiting breast cancer in a patient. The kit comprises a reagent for assessing expression of a marker listed in Tables 1-6, and may also comprise a plurality of compounds.

In another aspect, the invention relates to a kit for assessing the presence of breast cancer cells. This kit comprises an antibody, wherein the antibody binds specifically
10 with a protein corresponding to a marker listed in Tables 1-6. The kit may also comprise a plurality of antibodies, wherein the plurality binds specifically with a protein corresponding to a different marker which is also listed in Tables 1-6.

The invention also includes a kit for assessing the presence of breast cancer cells, wherein the kit comprises a nucleic acid probe. The probe binds specifically with a
15 transcribed polynucleotide corresponding to a marker listed in Tables 1-6. The kit may also comprise a plurality of probes, wherein each of the probes binds specifically with a transcribed polynucleotide corresponding to a different marker listed in Tables 1-6.

The invention further relates to a method of making an isolated hybridoma which produces an antibody useful for assessing whether a patient is afflicted with breast
20 cancer. The method comprises isolating a protein or protein fragment corresponding to a marker listed in Tables 1-6, immunizing a mammal using the isolated protein or protein fragment, isolating splenocytes from the immunized mammal, fusing the isolated splenocytes with an immortalized cell line to form hybridomas, and screening individual hybridomas for production of an antibody which specifically binds with the protein or
25 protein fragment to isolate the hybridoma. The invention also includes an antibody produced by this method.

The invention further includes a method of assessing the breast carcinogenic or irregular growth promoting potential of a test compound. This method comprises the steps of:

- 30
- a) maintaining separate aliquots of breast cells in the presence and absence of the test compound; and
 - b) comparing expression of a marker in each of the aliquots.

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The marker is selected from those listed in Tables 1-6. A significantly enhanced level of expression of the marker in the aliquot maintained in the presence of (or exposed to) the test compound, relative to the aliquot maintained in the absence of the test compound, is an indication that the test compound possesses breast carcinogenic or irregular growth promoting potential.

Additionally, the invention includes a kit for assessing the breast carcinogenic potential of a test compound. The kit comprises breast cells and a reagent for assessing expression of a marker in each of the aliquots. The marker is selected from those listed in Tables 1-6.

The invention further includes a method of treating a patient afflicted with breast cancer, comprising providing to cells of the patient an antisense oligonucleotide complementary to a polynucleotide corresponding to a marker listed in Tables 1-6.

The invention includes a method of inhibiting breast cancer in a patient at risk for developing breast cancer. This method comprises inhibiting expression or overexpression of a gene corresponding to a marker listed in Tables 1-6.

It will be appreciated that the methods and kits of the present invention may also include known cancer markers including known breast cancer markers. It will further be appreciated that the methods and kits may be used to identify cancers other than breast cancer.

20

DETAILED DESCRIPTION OF THE INVENTION

The invention relates to newly discovered correlations between expression of certain markers and the cancerous state of breast cells. It has been discovered that the level of expression of individual markers and combinations of markers described herein correlates with the presence of breast cancer in a patient. Methods are provided for detecting the presence of breast cancer in a sample, the absence of breast cancer in a sample, the stage of breast cancer, and other characteristics of breast cancer that are relevant to prevention, diagnosis, characterization, and therapy of breast cancer in a patient.

30

Definitions

As used herein, each of the following terms has the meaning associated with it in this section.

The articles "a" and "an" are used herein to refer to one or to more than one (*i.e.* to at least one) of the grammatical object of the article. By way of example, "an element" means one element or more than one element.

A "marker" is a naturally-occurring polymer corresponding to at least one of the novel nucleic acids listed in Tables 1-6. For example, markers include, without limitation, sense and anti-sense strands of genomic DNA (*i.e.* including any introns occurring therein), RNA generated by transcription of genomic DNA (*i.e.* prior to splicing), RNA generated by splicing of RNA transcribed from genomic DNA, and proteins generated by translation of spliced RNA (*e.g.* including proteins both before and after cleavage of normally cleaved regions such as transmembrane signal sequences). As used herein, "marker" may also include a cDNA made by reverse transcription of an RNA generated by transcription of genomic DNA (including spliced RNA).

As used herein a "polynucleotide corresponds to" another (a first) polynucleotide if it is related to the first polynucleotide by any of the following relationships: 1) The second polynucleotide comprises the first polynucleotide and the second polynucleotide encodes a gene product. 2) The second polynucleotide is 5' or 3' to the first polynucleotide in cDNA, RNA, genomic DNA, or fragment of any of these polynucleotides. For example, a second polynucleotide may be fragment of a gene that includes the first and second polynucleotides. The first and second polynucleotides are related in that they are components of the gene coding for a gene product, such as a protein or antibody. However, it is not necessary that the second polynucleotide comprises or overlaps with the first polynucleotide to be encompassed within the definition of "corresponding to" as used herein. For example, the first polynucleotide may be a fragment of a 3' untranslated region of the second polynucleotide. The first and second polynucleotide may be fragments of a gene coding for a gene product. The second polynucleotide may be an exon of the gene while the first polynucleotide may be an intron of the gene. 3) The second polynucleotide is the complement of the first polynucleotide.

The term "probe" refers to any molecule which is capable of selectively binding to a specifically intended target molecule, for example a marker of the invention. Probes can be either synthesized by one skilled in the art, or derived from appropriate biological preparations. For purposes of detection of the target molecule, probes may be specifically designed to be labeled, as described herein. Examples of molecules that can be utilized as probes include, but are not limited to, RNA, DNA, proteins, antibodies, and organic monomers.

A "breast-associated" body fluid is a fluid which, when in the body of a patient, contacts or passes through breast cells or into which cells, nucleic acids or proteins shed from breast cells are capable of passing. Exemplary breast-associated body fluids include blood fluids, lymph, cystic fluid, urine and nipple aspirates.

The "normal" level of expression of a marker is the level of expression of the marker in breast cells of a patient, *e.g.* a human, not afflicted with breast cancer.

"Over-expression" and "under-expression" of a marker refer to expression of the marker of a patient at a greater or lesser level, respectively, than normal level of expression of the marker (*e.g.* at least two-fold greater or lesser level).

As used herein, the term "promoter/regulatory sequence" means a nucleic acid sequence which is required for expression of a gene product operably linked to the promoter/regulatory sequence. In some instances, this sequence may be the core promoter sequence and in other instances, this sequence may also include an enhancer sequence and other regulatory elements which are required for expression of the gene product. The promoter/regulatory sequence may, for example, be one which expresses the gene product in a tissue-specific manner.

A "constitutive" promoter is a nucleotide sequence which, when operably linked with a polynucleotide which encodes or specifies a gene product, causes the gene product to be produced in a living human cell under most or all physiological conditions of the cell.

An "inducible" promoter is a nucleotide sequence which, when operably linked with a polynucleotide which encodes or specifies a gene product, causes the gene product to be produced in a living human cell substantially only when an inducer which corresponds to the promoter is present in the cell.

A "tissue-specific" promoter is a nucleotide sequence which, when operably linked with a polynucleotide which encodes or specifies a gene product, causes the gene product to be produced in a living human cell substantially only if the cell is a cell of the tissue type corresponding to the promoter.

5 A "transcribed polynucleotide" is a polynucleotide (*e.g.* an RNA, a cDNA, or an analog of one of an RNA or cDNA) which is complementary to or homologous with all or a portion of a mature RNA made by transcription of a genomic DNA corresponding to a marker of the invention and normal post-transcriptional processing (*e.g.* splicing), if any, of the transcript.

10 "Complementary" refers to the broad concept of sequence complementarity between regions of two nucleic acid strands or between two regions of the same nucleic acid strand. It is known that an adenine residue of a first nucleic acid region is capable of forming specific hydrogen bonds ("base pairing") with a residue of a second nucleic acid region which is antiparallel to the first region if the residue is thymine or uracil.

15 Similarly, it is known that a cytosine residue of a first nucleic acid strand is capable of base pairing with a residue of a second nucleic acid strand which is antiparallel to the first strand if the residue is guanine. A first region of a nucleic acid is complementary to a second region of the same or a different nucleic acid if, when the two regions are arranged in an antiparallel fashion, at least one nucleotide residue of the first region is

20 capable of base pairing with a residue of the second region. Preferably, the first region comprises a first portion and the second region comprises a second portion, whereby, when the first and second portions are arranged in an antiparallel fashion, at least about 50%, and preferably at least about 75%, at least about 90%, or at least about 95% of the nucleotide residues of the first portion are capable of base pairing with nucleotide

25 residues in the second portion. More preferably, all nucleotide residues of the first portion are capable of base pairing with nucleotide residues in the second portion.

"Homologous" as used herein, refers to nucleotide sequence similarity between two regions of the same nucleic acid strand or between regions of two different nucleic acid strands. When a nucleotide residue position in both regions is occupied by the

30 same nucleotide residue, then the regions are homologous at that position. A first region is homologous to a second region if at least one nucleotide residue position of each region is occupied by the same residue. Homology between two regions is expressed in

terms of the proportion of nucleotide residue positions of the two regions that are occupied by the same nucleotide residue. By way of example, a region having the nucleotide sequence 5'-ATTGCC-3' and a region having the nucleotide sequence 5'-TATGGC-3' share 50% homology. Preferably, the first region comprises a first portion
5 and the second region comprises a second portion, whereby, at least about 50%, and preferably at least about 75%, at least about 90%, or at least about 95% of the nucleotide residue positions of each of the portions are occupied by the same nucleotide residue. More preferably, all nucleotide residue positions of each of the portions are occupied by the same nucleotide residue.

10 A marker is "fixed" to a substrate if it is covalently or non-covalently associated with the substrate such the substrate can be rinsed with a fluid (*e.g.* standard saline citrate, pH 7.4) without a substantial fraction of the marker dissociating from the substrate.

As used herein, a "naturally-occurring" nucleic acid molecule refers to an RNA or
15 DNA molecule having a nucleotide sequence that occurs in nature (*e.g.* encodes a natural protein).

Expression of a marker in a patient is "significantly" higher or lower than the normal level of expression of a marker if the level of expression of the marker is greater or less, respectively, than the normal level by an amount greater than the standard error
20 of the assay employed to assess expression, and preferably at least twice, and more preferably three, four, five or ten times that amount. Alternately, expression of the marker in the patient can be considered "significantly" higher or lower than the normal level of expression if the level of expression is at least about two, and preferably at least about three, four, or five times, higher or lower, respectively, than the normal level of
25 expression of the marker.

Breast cancer is "inhibited" if at least one symptom of the cancer is alleviated, terminated, slowed, or prevented. As used herein, breast cancer is also "inhibited" if recurrence or metastasis of the cancer is reduced, slowed, delayed, or prevented.

A kit is any manufacture (*e.g.* a package or container) comprising at least one
30 reagent, *e.g.* a probe, for specifically detecting a marker of the invention, the manufacture being promoted, distributed, or sold as a unit for performing the methods of the present invention.

Description

The present invention is based, in part, on identification of novel markers which are expressed at a different level in breast cancer cells than they are in normal (*i.e.* non-cancerous) breast cells. The markers of the invention correspond to nucleic acid and polypeptide molecules which can be detected in one or both of normal and cancerous breast cells. The presence, absence, or level of expression of one or more of these markers in breast cells is herein correlated with the cancerous state of the tissue. The invention thus includes compositions, kits, and methods for assessing the cancerous state of breast cells (*e.g.* cells obtained from a human, cultured human cells, archived or preserved human cells and *in vivo* cells).

The compositions, kits, and methods of the invention have the following uses, among others:

- 1) assessing whether a patient is afflicted with breast cancer;
- 2) assessing the stage of breast cancer in a human patient;
- 3) assessing the grade of breast cancer in a patient;
- 4) assessing the benign or malignant nature of breast cancer in a patient;
- 5) assessing the histological type of neoplasm (*e.g.* ductal, lobular, etc.) associated with breast cancer in a patient;
- 6) making an isolated hybridoma which produces an antibody useful for assessing whether a patient is afflicted with breast cancer;
- 7) assessing the presence of breast cancer cells;
- 8) assessing the efficacy of one or more test compounds for inhibiting breast cancer in a patient;
- 9) assessing the efficacy of a therapy for inhibiting breast cancer in a patient;
- 10) monitoring the progression of breast cancer in a patient;
- 11) selecting a composition or therapy for inhibiting breast cancer in a patient;
- 12) treating a patient afflicted with breast cancer;
- 13) inhibiting breast cancer in a patient;
- 14) assessing the carcinogenic potential of a test compound; and

- 15) inhibiting breast cancer in a patient at risk for developing breast cancer.

The invention thus includes a method of assessing whether a patient is afflicted with breast cancer. This method comprises comparing the level of expression of a marker in a patient sample and the normal level of expression of the marker in a control, e.g., a non-breast cancer sample. A significant difference between the level of expression of the marker in the patient sample and the normal level is an indication that the patient is afflicted with breast cancer. The marker is selected from the group consisting of the markers listed in Tables 1-6.

- 10 The polynucleotides set forth in Tables 1-6 represent previously unidentified nucleotide sequences. These nucleotide sequences were identified through subtracted library experiments described herein. In Tables 1 and 3, SEQ ID NOS 316-470, 793-890, 1255-1363, 2125-2454 and 3352-3626 are preferred and SEQ ID NOS 1-315, 676-792, 1056-1254, 1645-2124 and 2942-3351 are most preferred. In Tables 2 and 4, SEQ ID NOS: 1879-1959 are preferred and SEQ ID NOS: 1-1878 are most preferred. Also provided by this invention are polynucleotides that correspond to the polynucleotides of Tables 1-6. In one embodiment, these polynucleotides are obtained by identification of a larger fragment or full-length coding sequence of these polynucleotides. Gene delivery vehicles, host cells, compositions and databases (all describe herein) containing these polynucleotides are also provided by this invention.

- 25 The invention also encompasses polynucleotides which differ from that of the polynucleotides described above, but which produce the same phenotypic effect, e.g. allelic variants. These altered, but phenotypically equivalent polynucleotides are referred to "equivalent nucleic acids." This invention also encompasses polynucleotides characterized by changes in non-coding regions that do not alter the polypeptide produced therefrom when compared to the polynucleotide herein. This invention further encompasses polynucleotides, which hybridize to the polynucleotides of the subject invention under conditions of moderate or high stringency. Alternatively, the polynucleotides are at least 85%, or at least 90%, or more preferably, greater or equal to 30 95% identical as determined by a sequence alignment program when run under default parameters.

Any marker or combination of markers listed in Tables 1-6, as well as any known markers in combination with the markers set forth in Tables 1-6, may be used in the compositions, kits, and methods of the present invention. In general, it is preferable to use markers for which the difference between the level of expression of the marker in breast cancer cells and the level of expression of the same marker in normal breast cells is as great as possible. Although this difference can be as small as the limit of detection of the method for assessing expression of the marker, it is preferred that the difference be at least greater than the standard error of the assessment method, and preferably a difference of at least 2-, 3-, 4-, 5-, 6-, 7-, 8-, 9-, 10-, 15-, 20-, 25-, 100-, 500-, 1000-fold or greater.

It is recognized that certain markers correspond to proteins which are secreted from breast cells (*i.e.* one or both of normal and cancerous cells) to the extracellular space surrounding the cells. These markers are preferably used in certain embodiments of the compositions, kits, and methods of the invention, owing to the fact that the protein corresponding to each of these markers can be detected in a breast-associated body fluid sample, which may be more easily collected from a human patient than a tissue biopsy sample. In addition, preferred *in vivo* techniques for detection of a protein corresponding to a marker of the invention include introducing into a subject a labeled antibody directed against the protein. For example, the antibody can be labeled with a radioactive marker whose presence and location in a subject can be detected by standard imaging techniques.

Although not every marker corresponding to a secreted protein is indicated as such herein, it is a simple matter for the skilled artisan to determine whether any particular marker corresponds to a secreted protein. In order to make this determination, the protein corresponding to a marker is expressed in a test cell (*e.g.* a cell of a breast cell line), extracellular fluid is collected, and the presence or absence of the protein in the extracellular fluid is assessed (*e.g.* using a labeled antibody which binds specifically with the protein).

The following is an example of a method which can be used to detect secretion of a protein corresponding to a marker of the invention. About 8×10^5 293T cells are incubated at 37°C in wells containing growth medium (Dulbecco's modified Eagle's medium {DMEM} supplemented with 10% fetal bovine serum) under a 5% (v/v) CO₂,

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95% air atmosphere to about 60-70% confluence. The cells are then transfected using a standard transfection mixture comprising 2 micrograms of DNA comprising an expression vector encoding the protein and 10 microliters of LipofectAMINE™ (GIBCO/BRL Catalog no. 18342-012) per well. The transfection mixture is maintained
5 for about 5 hours, and then replaced with fresh growth medium and maintained in an air atmosphere. Each well is gently rinsed twice with DMEM which does not contain methionine or cysteine (DMEM-MC; ICN Catalog no. 16-424- 54). About 1 milliliter of DMEM-MC and about 50 microcuries of Trans-³⁵S™ reagent (ICN Catalog no. 51006) are added to each well. The wells are maintained under the 5% CO₂ atmosphere
10 described above and incubated at 37°C for a selected period. Following incubation, 150 microliters of conditioned medium is removed and centrifuged to remove floating cells and debris. The presence of the protein in the supernatant is an indication that the protein is secreted.

Examples of breast-associated body fluids include blood fluids (*e.g.* whole blood,
15 blood serum, blood having platelets removed therefrom, etc.), lymph, ascitic fluid, cystic fluid, urine and nipple aspirates. In these embodiments, the level of expression of the marker can be assessed by assessing the amount (*e.g.* absolute amount or concentration) of the marker in a breast-associated body fluid obtained from a patient. The fluid can, of course, be subjected to a variety of well-known post-collection preparative and storage
20 techniques (*e.g.* storage, freezing, ultrafiltration, concentration, evaporation, centrifugation, etc.) prior to assessing the amount of the marker in the fluid.

Many breast-associated body fluids (*i.e.* usually excluding urine) can have breast cells therein, particularly when the breast cells are cancerous, and, more particularly, when the breast cancer is metastasizing. Thus, the compositions, kits, and methods of
25 the invention can be used to detect expression of markers corresponding to proteins having at least one portion which is displayed on the surface of cells which express it. It is a simple matter for the skilled artisan to determine whether the protein corresponding to any particular marker comprises a cell-surface protein. For example, immunological methods may be used to detect such proteins on whole cells, or well
30 known computer-based sequence analysis methods (*e.g.* the SIGNALP program; Nielsen *et al.*, 1997, *Protein Engineering* 10:1-6) may be used to predict the presence of at least one extracellular domain (*i.e.* including both secreted proteins and proteins having at

least one cell-surface domain). Expression of a marker corresponding to a protein having at least one portion which is displayed on the surface of a cell which expresses it may be detected without necessarily lysing the cell (*e.g.* using a labeled antibody which binds specifically with a cell-surface domain of the protein).

- 5 Expression of a marker of the invention may be assessed by any of a wide variety of well known methods for detecting expression of a transcribed molecule or protein. Non-limiting examples of such methods include immunological methods for detection of secreted, cell-surface, cytoplasmic, or nuclear proteins, protein purification methods, protein function or activity assays, nucleic acid hybridization methods, nucleic acid
10 reverse transcription methods, and nucleic acid amplification methods.

- In a preferred embodiment, expression of a marker is assessed using an antibody (*e.g.* a radio-labeled, chromophore-labeled, fluorophore-labeled, or enzyme-labeled antibody), an antibody derivative (*e.g.* an antibody conjugated with a substrate or with the protein or ligand of a protein-ligand pair {*e.g.* biotin-streptavidin}), or an antibody
15 fragment (*e.g.* a single-chain antibody, an isolated antibody hypervariable domain, etc.) which binds specifically with a protein or a fragment thereof, corresponding to the marker, such as the protein encoded by the open reading frame corresponding to the marker or such a protein which has undergone all or a portion of its normal post-translational modification.

- 20 In another preferred embodiment, expression of a marker is assessed by preparing mRNA/cDNA (*i.e.* a transcribed polynucleotide) from cells in a patient sample, and by hybridizing the mRNA/cDNA with a reference polynucleotide which is a complement of a polynucleotide comprising the marker, and fragments thereof. cDNA can, optionally, be amplified using any of a variety of polymerase chain reaction methods prior to
25 hybridization with the reference polynucleotide; preferably, it is not amplified. Expression of one or more markers can likewise be detected using quantitative PCR to assess the level of expression of the marker(s). Alternatively, any of the many known methods of detecting mutations or variants (*e.g.* single nucleotide polymorphisms, deletions, etc.) of a marker of the invention may be used to detect occurrence of a
30 marker in a patient.

In a related embodiment, a mixture of transcribed polynucleotides obtained from the sample is contacted with a substrate having fixed thereto a polynucleotide complementary to or homologous with at least a portion (*e.g.* at least 7, 10, 15, 20, 25, 30, 40, 50, 100, 500, or more nucleotide residues) of a marker of the invention. If
5 polynucleotides complementary to or homologous with are differentially detectable on the substrate (*e.g.* detectable using different chromophores or fluorophores, or fixed to different selected positions), then the levels of expression of a plurality of markers can be assessed simultaneously using a single substrate (*e.g.* a "gene chip" microarray of polynucleotides fixed at selected positions). When a method of assessing marker
10 expression is used which involves hybridization of one nucleic acid with another, it is preferred that the hybridization be performed under stringent hybridization conditions.

Because the compositions, kits, and methods of the invention rely on detection of a difference in expression levels of one or more markers of the invention, it is preferable that the level of expression of the marker is significantly greater than the minimum
15 detection limit of the method used to assess expression in at least one of normal breast cells and cancerous breast cells.

It is understood that by routine screening of additional patient samples using one or more of the markers of the invention, it will be realized that certain of the markers are over- or under-expressed in cancers of various types, including specific breast cancers,
20 as well as other cancers such as ovarian cancer, cervical cancer, etc. For example, it will be confirmed that some of the markers of the invention are over- or under-expressed in most (*i.e.* 50% or more) or substantially all (*i.e.* 80% or more) of breast cancer. Furthermore, it will be confirmed that certain of the markers of the invention are associated with breast cancer of various stages (*i.e.* stage 0, I, II, III, and IV breast
25 cancers, as well as subclassifications IIA, IIB, IIIA, and IIIB, using the FIGO Stage Grouping system for primary carcinoma of the breast; (see Breast, In: *American Joint Committee on Cancer: AJCC Cancer Staging Manual*. Lippincott-Raven Publishers, 5th ed., 1997, pp. 171-180), of various histologic subtypes (*e.g.* serous, mucinous, endometrioid, and clear cell subtypes, as well as subclassifications and alternate
30 classifications adenocarcinoma, papillary adenocarcinoma, papillary cystadenocarcinoma, surface papillary carcinoma, malignant adenofibroma, cystadenofibroma, adenocarcinoma, cystadenocarcinoma, adenoacanthoma,

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endometrioid stromal sarcoma, mesodermal (Müllerian) mixed tumor, mesonephroid tumor, malignant carcinoma, Brenner tumor, mixed epithelial tumor, and undifferentiated carcinoma, using the WHO/FIGO system for classification of malignant breast tumors; Scully, *Atlas of Tumor Pathology*, 3d series, Washington DC), and various grades (*i.e.* grade I {well differentiated} , grade II {moderately well differentiated}, and grade III {poorly differentiated from surrounding normal tissue}). In addition, as a greater number of patient samples are assessed for expression of the markers of the invention and the outcomes of the individual patients from whom the samples were obtained are correlated, it will also be confirmed that altered expression of certain of the markers of the invention are strongly correlated with malignant cancers and that altered expression of other markers of the invention are strongly correlated with benign tumors. The compositions, kits, and methods of the invention are thus useful for characterizing one or more of the stage, grade, histological type, and benign/malignant nature of breast cancer in patients. In addition, these compositions, kits, and methods can be used to detect and differentiate lobular and ductal carcinoma breast cancers.

When the compositions, kits, and methods of the invention are used for characterizing one or more of the stage, grade, histological type, and benign/malignant nature of breast cancer in a patient, it is preferred that the marker or panel of markers of the invention is selected such that a positive result is obtained in at least about 20%, and preferably at least about 40%, 60%, or 80%, and more preferably in substantially all patients afflicted with an breast cancer of the corresponding stage, grade, histological type, or benign/malignant nature. Preferably, the marker or panel of markers of the invention is selected such that a PPV of greater than about 10% is obtained for the general population (more preferably coupled with an assay specificity greater than 99.5%).

When a plurality of markers of the invention are used in the compositions, kits, and methods of the invention, the level of expression of each marker in a patient sample can be compared with the normal level of expression of each of the plurality of markers in non-cancerous samples of the same type, either in a single reaction mixture (*i.e.* using reagents, such as different fluorescent probes, for each marker) or in individual reaction mixtures corresponding to one or more of the markers. In one embodiment, a significantly enhanced level of expression of more than one of the plurality of markers

in the sample, relative to the corresponding normal levels, is an indication that the patient is afflicted with breast cancer. In another embodiment, a significantly lower level of expression in the sample of each of the plurality of markers, relative to the corresponding normal levels, is an indication that the patient is afflicted with breast cancer. In yet another embodiment, a significantly enhanced level of expression of one or more markers and a significantly lower level of expression of one or more markers in a sample relative to the corresponding normal levels, is an indication that the patient is afflicted with breast cancer. When a plurality of markers is used, it is preferred that 2, 3, 4, 5, 8, 10, 12, 15, 20, 30, or 50 or more individual markers be used, wherein fewer markers are preferred.

In order to maximize the sensitivity of the compositions, kits, and methods of the invention (*i.e.* by interference attributable to cells of non-breast origin in a patient sample), it is preferable that the marker of the invention used therein be a marker which has a restricted tissue distribution, *e.g.*, normally not expressed in a non-breast tissue.

Only a small number of markers are known to be associated with breast cancers (*e.g.* *BRCA1* and *BRCA2*). These markers are not, of course, included among the markers of the invention, although they may be used together with one or more markers of the invention in a panel of markers, for example. It is well known that certain types of genes, such as oncogenes, tumor suppressor genes, growth factor-like genes, protease-like genes, and protein kinase-like genes are often involved with development of cancers of various types. Thus, among the markers of the invention, use of those which correspond to proteins which resemble known proteins encoded by known oncogenes and tumor suppressor genes, and those which correspond to proteins which resemble growth factors, proteases, and protein kinases are preferred.

Known oncogenes and tumor suppressor genes include, for example, *abl*, *abr*, *akt2*, *apc*, *bcl2 α* , *bcl2 β* , *bcl3*, *bcr*, *brca1*, *brca2*, *cbl*, *ccnd1*, *cdc42*, *cdk4*, *crk- II*, *csf1r/fms*, *dbl*, *dcc*, *dpc4/smad4*, *e-cad*, *e2f1/rbap*, *egfr/erbB-1*, *elk1*, *elk3*, *eph*, *erg*, *ets1*, *ets2*, *fer*, *fgr/src2*, *fli1/erbB2*, *fos*, *fps/fes*, *fra1*, *fra2*, *fyn*, *hck*, *hek*, *her2/erbB- 2/neu*, *her3/erbB-3*, *her4/erbB-4*, *hras1*, *hst2*, *hstf1*, *igfbp2*, *ink4a*, *ink4b*, *int2/lfgf3*, *jun*, *junb*, *jund*, *kip2*, *kit*, *kras2a*, *kras2b*, *lck*, *lyn*, *mas*, *max*, *mcc*, *mdm2*, *met*, *mlh1*, *mmp10*, *mos*, *msh2*, *msh3*, *msh6*, *myb*, *myba*, *mybb*, *myc*, *mycl1*, *mycn*, *nf1*, *nf2*, *nme2*, *nras*, *p53*, *pdgfb*, *phb*, *pim1*, *pms1*, *pms2*, *ptc*, *pten*, *raf1*, *rap1a*, *rb1*, *rel*, *ret*, *ros1*, *ski*, *src1*, *tall*,

tgfbr2, tgfb3, tgfbr3, thra1, thrb, tiam1, timp3, tjp1, tp53, trk, vav, vhl, vil2, waf1, wnt1, wnt2, wt1, and yes1 (Hesketh, 1997, In: *The Oncogene and Tumour Suppressor Gene Facts Book*, 2nd Ed., Academic Press; Fishel *et al.*, 1994, *Science* 266:1403-1405).

Known growth factors include platelet-derived growth factor alpha, platelet-
 5 derived growth factor beta (simian sarcoma viral {v-sis} oncogene homolog),
 thrombopoietin (myeloproliferative leukemia virus oncogene ligand, megakaryocyte
 growth and development factor), erythropoietin, B cell growth factor, macrophage
 stimulating factor 1 (hepatocyte growth factor-like protein), hepatocyte growth factor
 (hepapoietin A), insulin-like growth factor 1 (somatomedia C), hepatoma-derived
 10 growth factor, amphiregulin (schwannoma-derived growth factor), bone morphogenetic
 proteins 1, 2, 3, 3 beta, and 4, bone morphogenetic protein 7 (osteogenic protein 1), bone
 morphogenetic protein 8 (osteogenic protein 2), connective tissue growth factor,
 connective tissue activation peptide 3, epidermal growth factor (EGF), teratocarcinoma-
 derived growth factor 1, endothelin, endothelin 2, endothelin 3, stromal cell-derived
 15 factor 1, vascular endothelial growth factor (VEGF), VEGF-B, VEGF-C, placental
 growth factor (vascular endothelial growth factor-related protein), transforming growth
 factor alpha, transforming growth factor beta 1 and its precursors, transforming growth
 factor beta 2 and its precursors, fibroblast growth factor 1 (acidic), fibroblast growth
 factor 2 (basic), fibroblast growth factor 5 and its precursors, fibroblast growth factor 6
 20 and its precursors, fibroblast growth factor 7 (keratinocyte growth factor), fibroblast
 growth factor 8 (androgen-induced), fibroblast growth factor 9 (glia-activating factor),
 pleiotrophin (heparin binding growth factor 8, neurite growth-promoting factor 1),
 brain-derived neurotrophic factor, and recombinant glial growth factor 2.

Known proteases include interleukin-1 beta convertase and its precursors, Mch6
 25 and its precursors, Mch2 isoform alpha, Mch4, Cpp32 isoform alpha, Lice2 gamma
 cysteine protease, Ich-1S, Ich-1L, Ich-2 and its precursors, TY protease, matrix
 metalloproteinase 1 (interstitial collagenase), matrix metalloproteinase 2 (gelatinase A,
 72kD gelatinase, 72kD type IV collagenase), matrix metalloproteinase 7 (matrilysin),
 matrix metalloproteinase 8 (neutrophil collagenase), matrix metalloproteinase 12
 30 (macrophage elastase), matrix metalloproteinase 13 (collagenase 3), metalloproteinase 1,
 cysteine-rich metalloproteinase (disintegrin) and its precursors, subtilisin-like protease Pc8
 and its precursors, chymotrypsin, snake venom-like protease, cathepsin L, cathepsin D

(lysosomal aspartyl protease), stromelysin, aminopeptidase N, plasminogen, tissue plasminogen activator, plasminogen activator inhibitor type II, and urokinase-type plasminogen activator.

- Known protein kinases include DAP kinase, serine/threonine protein kinases
- 5 NIK, PK428, Krs-2, SAK, and EMK, interferon-inducible double stranded RNA dependent protein kinase, FAST kinase, AIM1, IPL1-like midbody-associated protein kinase-1, NIMA-like protein kinase 1 (NLK1), the cyclin-dependent kinases (cdk1-10), checkpoint kinase Chk1, Nek3 protein kinase, BMK1 beta kinase, Clk1, Clk2, Clk3, extracellular signal-regulated kinases 1, 3, and 6, cdc28 protein kinase 1, cdc28 protein
 - 10 kinase 2, pLK, Myt1, c-Jun N-terminal kinase 2, Cam kinase 1, the MAP kinases, insulin-stimulated protein kinase 1, beta-adrenergic receptor kinase 2, ribosomal protein S6 kinase, kinase suppressor of ras-1 (KSR1), putative serine/threonine protein kinase Prk, Pkb kinase, cAMP-dependent protein kinase, cGMP-dependent protein kinase, type II cGMP-dependent protein kinase, protein kinases Dyrk2, Dyrk3, and Dyrk4, Rho-
 - 15 associated coiled-coil containing protein kinase p160ROCK, protein tyrosine kinase t-Ror1, Ste20-related kinases, cell adhesion kinase beta, protein kinase 3, stress-activated protein kinase 4, protein kinase Zpk, serine kinase hPAK65, dual specificity mitogen-activated protein kinases 1 and 2, casein kinase I gamma 2, p21-activated protein kinase Pak1, lipid-activated protein kinase PRK2, focal adhesion kinase, dual-specificity
 - 20 tyrosine-phosphorylation regulated kinase, myosin light chain kinase, serine kinases SRPK2, TESK1, and VRK2, B lymphocyte serine/threonine protein kinase, stress-activated protein kinases JNK1 and JNK2, phosphorylase kinase, protein tyrosine kinase Tec, Jak2 kinase, protein kinase Ndr, MEK kinase 3, SHB adaptor protein (a Src homology 2 protein), agammaglobulinaemia protein-tyrosine kinase (Atk), protein
 - 25 kinase ATR, guanylate kinase 1, thrombopoietin receptor and its precursors, DAG kinase epsilon, and kinases encoded by oncogenes or viral oncogenes such as v-fgr (Gardner-Rasheed), v-abl (Abelson murine leukemia viral oncogene homolog 1), v-arg (Abelson murine leukemia viral oncogene homolog, Abelson-related gene), v-fes and v-fps (feline sarcoma viral oncogene and Fujinami avian sarcoma viral oncogene
 - 30 homologs), proto-oncogene *c-cot*, oncogene *pim-1*, and oncogene *mas1*.

It is recognized that the compositions, kits, and methods of the invention will be of particular utility to patients having an enhanced risk of developing breast cancer and their medical advisors. Patients recognized as having an enhanced risk of developing breast cancer include, for example, patients having a familial history of breast cancer, patients identified as having a mutant oncogene (*i.e.* at least one allele), and patients of advancing age (*i.e.* women older than about 50 or 60 years).

The level of expression of a marker in normal (*i.e.* non-cancerous) human breast tissue can be assessed in a variety of ways. In one embodiment, this normal level of expression is assessed by assessing the level of expression of the marker in a portion of breast cells which appears to be non-cancerous and by comparing this normal level of expression with the level of expression in a portion of the breast cells which is suspected of being cancerous. For example, when mammography or other medical procedure, reveals the presence of a lump in a patient's breast, the normal level of expression of a marker may be assessed using the non-affected breast tissue, and this normal level of expression may be compared with the level of expression of the same marker in an affected portion (*i.e.* the lump) of the affected breast. Alternately, and particularly as further information becomes available as a result of routine performance of the methods described herein, population-average values for normal expression of the markers of the invention may be used. In other embodiments, the 'normal' level of expression of a marker may be determined by assessing expression of the marker in a patient sample obtained from a non-cancer-afflicted patient, from a patient sample obtained from a patient before the suspected onset of breast cancer in the patient, from archived patient samples, and the like.

The invention includes compositions, kits, and methods for assessing the presence of breast cancer cells in a sample (*e.g.* an archived tissue sample or a sample obtained from a patient). These compositions, kits, and methods are substantially the same as those described above, except that, where necessary, the compositions, kits, and methods are adapted for use with samples other than patient samples. For example, when the sample to be used is a paraffinized, archived human tissue sample, it can be necessary to adjust the ratio of compounds in the compositions of the invention, in the kits of the invention, or the methods used to assess levels of marker expression in the

sample. Such methods are well known in the art and within the skill of the ordinary artisan.

The invention includes a kit for assessing the presence of breast cancer cells (*e.g.* in a sample such as a patient sample). The kit comprises a plurality of reagents, each of which is capable of binding specifically with a nucleic acid or polypeptide
5 corresponding to a marker of the invention. Suitable reagents for binding with a polypeptide corresponding to a marker of the invention include antibodies, antibody derivatives, antibody fragments, and the like. Suitable reagents for binding with a nucleic acid (*e.g.* a genomic DNA, an mRNA, a spliced mRNA, a cDNA, or the like)
10 include complementary nucleic acids. For example, the nucleic acid reagents may include oligonucleotides (labeled or non-labeled) fixed to a substrate, labeled oligonucleotides not bound with a substrate, pairs of PCR primers, molecular beacon probes, and the like.

The kit of the invention may optionally comprise additional components useful
15 for performing the methods of the invention. By way of example, the kit may comprise fluids (*e.g.* SSC buffer) suitable for annealing complementary nucleic acids or for binding an antibody with a protein with which it specifically binds, one or more sample compartments, an instructional material which describes performance of a method of the invention, a sample of normal breast cells, a sample of breast cancer cells, and the like.

20 The invention also includes a method of making an isolated hybridoma which produces an antibody useful for assessing whether patient is afflicted with breast cancer. In this method, a protein corresponding to a marker of the invention is isolated (*e.g.* by purification from a cell in which it is expressed or by transcription and translation of a nucleic acid encoding the protein *in vivo* or *in vitro* using known methods). A
25 vertebrate, preferably a mammal such as a mouse, rat, rabbit, or sheep, is immunized using the isolated protein or protein fragment. The vertebrate may optionally (and preferably) be immunized at least one additional time with the isolated protein or protein fragment, so that the vertebrate exhibits a robust immune response to the protein or protein fragment. Splenocytes are isolated from the immunized vertebrate and fused
30 with an immortalized cell line to form hybridomas, using any of a variety of methods well known in the art. Hybridomas formed in this manner are then screened using standard methods to identify one or more hybridomas which produce an antibody which

specifically binds with the protein or protein fragment. The invention also includes hybridomas made by this method and antibodies made using such hybridomas.

The invention also includes a method of assessing the efficacy of a test compound for inhibiting breast cancer cells. As described above, differences in the level of
5 expression of the markers of the invention correlate with the cancerous state of breast cells. Although it is recognized that changes in the levels of expression of certain of the markers of the invention likely result from the cancerous state of breast cells, it is likewise recognized that changes in the levels of expression of other of the markers of the invention induce, maintain, and promote the cancerous state of those cells. Thus,
10 compounds which inhibit breast cancer in a patient will cause the level of expression of one or more of the markers of the invention to change to a level nearer the normal level of expression for that marker (*i.e.* the level of expression for the marker in non-cancerous breast cells).

This method thus comprises comparing expression of a marker in a first breast
15 cell sample and maintained in the presence of the test compound and expression of the marker in a second breast cell sample and maintained in the absence of the test compound. A significant alteration in the level of expression of a marker listed in Tables 1-6, may be an indication that the test compound inhibits breast cancer (*e.g.*, decreases in expression in those markers that are over-expressed in breast cancer cells or
20 more aggressive breast cancer cells and breast cancer cells from patients with poor clinical outcome or increases expression in those markers that are under-expressed in breast cancer cells or in more aggressive breast cancer cells or breast cancer cells from patients with poor clinical outcome. The breast cell samples may, for example, be aliquots of a single sample of normal breast cells obtained from a patient, pooled
25 samples of normal breast cells obtained from a patient, cells of a normal breast cell line, aliquots of a single sample of breast cancer cells obtained from a patient, pooled samples of breast cancer cells obtained from a patient, cells of a breast cancer cell line, or the like. In one embodiment, the samples are breast cancer cells obtained from a patient and a plurality of compounds known to be effective for inhibiting various breast cancers are
30 tested in order to identify the compound which is likely to best inhibit the breast cancer in the patient.

This method may likewise be used to assess the efficacy of a therapy for inhibiting breast cancer in a patient. In this method, the level of expression of one or more markers of the invention in a pair of samples (one subjected to the therapy, the other not subjected to the therapy) is assessed. As with the method of assessing the efficacy of test compounds, if the therapy induces a significant alteration in the level of expression of a marker listed in Tables 1-6, or blocks induction of a marker listed in Tables 1-6, then the therapy may be efficacious for inhibiting breast cancer. As above, if samples from a selected patient are used in this method, then alternative therapies can be assessed *in vitro* in order to select a therapy most likely to be efficacious for inhibiting breast cancer in the patient.

As described herein, breast cancer in patients is associated with levels of expression of one or more markers listed in Tables 1-6. While, as discussed above, some of these changes in expression level result from occurrence of the breast cancer, others of these changes induce, maintain, and promote the cancerous state of breast cancer cells. Thus, breast cancer characterized by an alteration in the level of expression of one or more markers listed in Tables 1-6 can be inhibited by hampering or increasing expression of those markers.

Expression of a marker listed in Tables 1-6 can be inhibited in a number of ways generally known in the art. For example, an antisense oligonucleotide can be provided to the breast cancer cells in order to inhibit transcription, translation, or both, of the marker(s). Alternately, a polynucleotide encoding an antibody, an antibody derivative, or an antibody fragment, and operably linked with an appropriate promoter/regulator region, can be provided to the cell in order to generate intracellular antibodies which will inhibit the function or activity of the protein corresponding to the marker(s). Using the methods described herein, a variety of molecules, particularly including molecules sufficiently small that they are able to cross the cell membrane, can be screened in order to identify molecules which inhibit expression of the marker(s). The compound so identified can be provided to the patient in order to inhibit expression of the marker(s) in the breast cancer cells of the patient.

Expression of a marker listed within Tables 1-6 can be enhanced in number of ways generally known in the art. For example, a polynucleotide encoding the marker and operably linked with an appropriate promoter/regulator region can be provided to

breast cancer cells of the patient in order to induce enhanced expression of the protein (and mRNA) corresponding to the marker therein. Alternatively, if the protein is capable of crossing the cell membrane, inserting itself in the cell membrane, or is normally a secreted protein, then expression of the protein can be enhanced by providing
5 the protein (*e.g.* directly or by way of the bloodstream or another breast-associated fluid) to breast cancer cells in the patient.

As described above, the cancerous state of human breast cells is correlated with changes in the levels of expression of the markers of the invention. The invention thus includes a method for assessing the human breast cell carcinogenic potential of a test
10 compound. This method comprises maintaining separate aliquots of human breast cells in the presence and absence of the test compound. Expression of a marker of the invention in each of the aliquots is compared. A significant alteration in the level of expression of a marker listed in Tables 1-6 in the aliquot maintained in the presence of the test compound (relative to the aliquot maintained in the absence of the test
15 compound) may be an indication that the test compound possesses human breast cell carcinogenic potential. The relative carcinogenic potentials of various test compounds can be assessed by comparing the degree of enhancement or inhibition of the level of expression of the relevant markers, by comparing the number of markers for which the level of expression is enhanced or inhibited, or by comparing both.

20 Various aspects of the invention are described in further detail in the following subsections.

I. Isolated Nucleic Acid Molecules

One aspect of the invention pertains to novel isolated nucleic acid molecules that
25 correspond to a marker of the invention, including nucleic acids which encode a polypeptide corresponding to a marker of the invention or a portion of such a polypeptide. Isolated nucleic acids of the invention also include nucleic acid molecules sufficient for use as hybridization probes to identify nucleic acid molecules that correspond to a marker of the invention, including nucleic acids which encode a
30 polypeptide corresponding to a marker of the invention, and fragments of such nucleic acid molecules, *e.g.*, those suitable for use as PCR primers for the amplification or mutation of nucleic acid molecules. As used herein, the term "nucleic acid molecule" is

intended to include DNA molecules (e.g., cDNA or genomic DNA) and RNA molecules (e.g., mRNA) and analogs of the DNA or RNA generated using nucleotide analogs. The nucleic acid molecule can be single-stranded or double-stranded, but preferably is double-stranded DNA.

5 An "isolated" nucleic acid molecule is one which is separated from other nucleic acid molecules which are present in the natural source of the nucleic acid molecule. Preferably, an "isolated" nucleic acid molecule is free of sequences (preferably protein-encoding sequences) which naturally flank the nucleic acid (*i.e.*, sequences located at the 5' and 3' ends of the nucleic acid) in the genomic DNA of the organism from which the
10 nucleic acid is derived. For example, in various embodiments, the isolated nucleic acid molecule can contain less than about 5 kB, 4 kB, 3 kB, 2 kB, 1 kB, 0.5 kB or 0.1 kB of nucleotide sequences which naturally flank the nucleic acid molecule in genomic DNA of the cell from which the nucleic acid is derived. Moreover, an "isolated" nucleic acid molecule, such as a cDNA molecule, can be substantially free of other cellular material,
15 or culture medium when produced by recombinant techniques, or substantially free of chemical precursors or other chemicals when chemically synthesized.

 A nucleic acid molecule of the present invention, *e.g.*, a nucleic acid encoding a protein corresponding to a marker listed in Tables 1-6, can be isolated using standard molecular biology techniques and the sequence information in the database records
20 described herein. Using all or a portion of such nucleic acid sequences, nucleic acid molecules of the invention can be isolated using standard hybridization and cloning techniques (*e.g.*, as described in Sambrook *et al.*, ed., *Molecular Cloning: A Laboratory Manual*, 2nd ed., Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY, 1989).

25 A process for identifying a larger fragment or the full-length coding sequence of a marker of the present invention is thus also provided. Any conventional recombinant DNA techniques applicable for isolating polynucleotides may also be employed. One such method involves the 5'-RACE-PCR technique, in which the poly-A mRNA that contains the coding sequence of particular interest is first reverse transcribed with a 3'-
30 primer comprising a sequence disclosed herein. The newly synthesized cDNA strand is then tagged with an anchor primer with a known sequence, which preferably contains a convenient cloning restriction site attached at the 5' end. The tagged cDNA is then

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amplified with the 3'-primer (or a nested primer sharing sequence homology to the internal sequences of the coding region) and the 5'-anchor primer. The amplification may be conducted under conditions of various levels of stringency to optimize the amplification specificity. 5'-RACE-PCR can be readily performed using commercial kits
5 (available from, *e.g.*, BRL Life Technologies Inc., Clontech) according to the manufacturer's instructions.

Isolating the complete coding sequence of a gene can also be carried out in a hybridization assay using a suitable probe. The probe preferably comprises at least 10 nucleotides, and more preferably exhibits sequence homology to the polynucleotides of
10 the markers of the present invention. Other high throughput screens for cDNAs, such as those involving gene chip technology, can also be employed in obtaining the complete cDNA sequence.

In addition, databases exist that reduce the complexity of ESTs by assembling contiguous EST sequences into tentative genes. For example, TIGR has assembled
15 human ESTs into a databse called THC for tentative human consensus sequences. The THC database allows for a more definitive assignment compared to ESTs alone. Software programs exist (TIGR assembler and TIGEM EST assembly machine and contig assembly program (see Huang, X., 1996, *Genomes* 33:21-23)) that allow for assembling ESTs into contiguous sequences from any organism.

20 Alternatively, mRNA from a sample preparation is used to construct cDNA library in the ZAP Express vector following the procedure described in Velculescu *et al.*, 1997, *Science* 270:484. The ZAP Express cDNA synthesis kit (Stratagene) is used accordingly to the manufacturer's protocol. Plates containing 250 to 2000 plaques are hybridized as described in Rupert *et al.*, 1988, *Mol. Cell. Bio.* 8:3104 to oligonucleotide
25 probes with the same conditions previously described for standard probes except that the hybridization temperature is reduced to a room temperature. Washes are performed in 6X standard-saline-citrate 0.1% SDS for 30 minutes at room temperature. The probes are labeled with ³²P-ATP through use of T4 polynucleotide kinase.

A partial cDNA (3' fragment) can be isolated by 3' directed PCR reaction. This
30 procedure is a modification of the protocol described in Polyak *et al.*, 1997, *Nature* 389:300. Briefly, the procedure uses SAGE tags in PCR reaction such that the resultant PCR product contains the SAGE tag of interest as well as additional cDNA, the length

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of which is defined by the position of the tag with respect to the 3' end of the cDNA. The cDNA product derived from such a transcript driven PCR reaction can be used for many applications.

RNA from a source to express the cDNA corresponding to a given tag is first
5 converted to double-stranded cDNA using any standard cDNA protocol. Similar conditions used to generate cDNA for SAGE library construction can be employed except that a modified oligo-dT primer is used to derive the first strand synthesis. For example, the oligonucleotide of composition 5'-B-TCC GGC GCG CCG TTT TCC CAG TCA CGA(30)- 3', contains a poly-T stretch at the 3' end for hybridization and
10 priming from poly-A tails, an M13 priming site for use in subsequent PCR steps, a 5' Biotin label (B) for capture to streptavidin-coated magnetic beads, and an *AscI* restriction endonuclease site for releasing the cDNA from the streptavidin-coated magnetic beads. Theoretically, any sufficiently-sized DNA region capable of hybridizing to a PCR primer can be used as well as any other 8 base pair recognizing endonuclease.

15 cDNA constructed utilizing this or similar modified oligo-dT primer is then processed exactly as described in U.S. Patent No. 5,695,937 up until adapter ligation where only one adapter is ligated to the cDNA pool. After Adapter ligation, the cDNA is released from the streptavidin-coated magnetic beads and is then used as a template for cDNA amplification.

20 Various PCR protocols can be employed using PCR priming sites within the 3' modified oligo-dT primer and the SAGE tag. The SAGE tag-derived PCR primer employed can be of varying length dictated by 5' extension of the tag into the adaptor sequence. cDNA products are now available for a variety of applications.

This technique can be further modified by: (1) altering the length and/or content
25 of the modified oligo-dT primer; (2) ligating adaptors other than that previously employed within the SAGE protocol; (3) performing PCR from template retained on the streptavidin-coated magnetic beads; and (4) priming first strand cDNA synthesis with non-oligo-dT based primers.

Gene trapper technology can also be used. The reagents and manufacturer's
30 instructions for this technology are commercially available from Life Technologies, Inc., Gaithersburg, Maryland. Briefly, a complex population of single-stranded phagemid DNA containing directional cDNA inserts is enriched for the target sequence by

hybridization in solution to a biotinylated oligonucleotide probe complementary to the target sequence. The hybrids are captured on streptavidin-coated paramagnetic beads. A magnet retrieves the paramagnetic beads from the solution, leaving nonhybridized single-stranded DNAs behind. Subsequently, the captured single-stranded DNA target is released from the biotinylated oligonucleotide. After release, the cDNA clone is further enriched by using a nonbiotinylated target oligonucleotide to specifically prime conversion of the single-stranded DNA. Following transformation and plating, typically 20% to 100% of the colonies represent the cDNA clone of interest. To identify the desired cDNA clone, the colonies may be screened by colony hybridization using the ³²P-labeled oligonucleotide as described above for solution hybridization, or alternatively by DNA sequencing and alignment of all sequences obtained from numerous clones to determine a consensus sequence.

A nucleic acid molecule of the invention can be amplified using cDNA, mRNA, or genomic DNA as a template and appropriate oligonucleotide primers according to standard PCR amplification techniques. The nucleic acid so amplified can be cloned into an appropriate vector and characterized by DNA sequence analysis. Furthermore, oligonucleotides corresponding to all or a portion of a nucleic acid molecule of the invention can be prepared by standard synthetic techniques, *e.g.*, using an automated DNA synthesizer.

In another preferred embodiment, an isolated nucleic acid molecule of the invention comprises a nucleic acid molecule which has a nucleotide sequence complementary to the nucleotide sequence of a nucleic acid corresponding to a marker of the invention or to the nucleotide sequence of a nucleic acid encoding a protein which corresponds to a marker of the invention. A nucleic acid molecule which is complementary to a given nucleotide sequence is one which is sufficiently complementary to the given nucleotide sequence that it can hybridize to the given nucleotide sequence thereby forming a stable duplex.

Moreover, a nucleic acid molecule of the invention can comprise only a portion of a nucleic acid sequence, wherein the full length nucleic acid sequence comprises a marker of the invention or which encodes a polypeptide corresponding to a marker of the invention. Such nucleic acids can be used, for example, as a probe or primer. The probe/primer typically is used as one or more substantially purified oligonucleotides.

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The oligonucleotide typically comprises a region of nucleotide sequence that hybridizes under stringent conditions to at least about 7, preferably about 15, more preferably about 25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, or 400 or more consecutive nucleotides of a nucleic acid of the invention.

5 Probes based on the sequence of a nucleic acid molecule of the invention can be used to detect transcripts or genomic sequences corresponding to one or more markers of the invention. The probe comprises a label group attached thereto, *e.g.*, a radioisotope, a fluorescent compound, an enzyme, or an enzyme co-factor. Such probes can be used as part of a diagnostic test kit for identifying cells or tissues which mis-
10 express the protein, such as by measuring levels of a nucleic acid molecule encoding the protein in a sample of cells from a subject, *e.g.*, detecting mRNA levels or determining whether a gene encoding the protein has been mutated or deleted.

 The invention further encompasses nucleic acid molecules that differ, due to degeneracy of the genetic code, from the nucleotide sequence of nucleic acids encoding
15 a protein which corresponds to a marker of the invention, and thus encode the same protein.

 In addition to the nucleotide sequences described herein, it will be appreciated by those skilled in the art that DNA sequence polymorphisms that lead to changes in the amino acid sequence can exist within a population (*e.g.*, the human population). Such
20 genetic polymorphisms can exist among individuals within a population due to natural allelic variation. An allele is one of a group of genes which occur alternatively at a given genetic locus. In addition, it will be appreciated that DNA polymorphisms that affect RNA expression levels can also exist that may affect the overall expression level of that gene (*e.g.*, by affecting regulation or degradation).

25 As used herein, the phrase "allelic variant" refers to a nucleotide sequence which occurs at a given locus or to a polypeptide encoded by the nucleotide sequence.

 As used herein, the terms "gene" and "recombinant gene" refer to nucleic acid molecules comprising an open reading frame encoding a polypeptide corresponding to a marker of the invention. Such natural allelic variations can typically result in 1-5%
30 variance in the nucleotide sequence of a given gene. Alternative alleles can be identified by sequencing the gene of interest in a number of different individuals. This can be readily carried out by using hybridization probes to identify the same genetic locus in a

variety of individuals. Any and all such nucleotide variations and resulting amino acid polymorphisms or variations that are the result of natural allelic variation and that do not alter the functional activity are intended to be within the scope of the invention.

In another embodiment, an isolated nucleic acid molecule of the invention is at
5 least 7, 15, 20, 25, 30, 40, 60, 80, 100, 150, 200, 250, 300, 350, 400, 450, 550, 650, 700, 800, 900, 1000, 1200, 1400, 1600, 1800, 2000, 2200, 2400, 2600, 2800, 3000, 3500, 4000, 4500, or more nucleotides in length and hybridizes under stringent conditions to a nucleic acid corresponding to a marker of the invention or to a nucleic acid encoding a protein corresponding to a marker of the invention. As used herein, the term "hybridizes
10 under stringent conditions" is intended to describe conditions for hybridization and washing under which nucleotide sequences at least 75% (80%, 85%, preferably 90%) identical to each other typically remain hybridized to each other. Such stringent conditions are known to those skilled in the art and can be found in sections 6.3.1-6.3.6 of *Current Protocols in Molecular Biology*, John Wiley & Sons, N.Y. (1989). A
15 preferred, non-limiting example of stringent hybridization conditions for annealing two single-stranded DNA each of which is at least about 100 bases in length and/or for annealing a single-stranded DNA and a single-stranded RNA each of which is at least about 100 bases in length, are hybridization in 6X sodium chloride/sodium citrate (SSC) at about 45°C, followed by one or more washes in 0.2X SSC, 0.1% SDS at 50-65°C.
20 Further preferred hybridization conditions are taught in Lockhart, *et al.*, *Nature Biotechnology*, Volume 14, 1996 August:1675-1680; Breslauer, *et al.*, *Proc. Natl. Acad. Sci. USA*, Volume 83, 1986 June: 3746-3750; Van Ness, *et al.*, *Nucleic Acids Research*, Volume 19, No. 19, 1991 September: 5143-5151; McGraw, *et al.*, *BioTechniques*, Volume 8, No. 6 1990: 674-678; and Milner, *et al.*, *Nature Biotechnology*, Volume 15,
25 1997 June: 537-541, all expressly incorporated by reference.

In addition to naturally-occurring allelic variants of a nucleic acid molecule of the invention that can exist in the population, the skilled artisan will further appreciate that sequence changes can be introduced by mutation thereby leading to changes in the amino acid sequence of the encoded protein, without altering the biological activity of
30 the protein encoded thereby. For example, one can make nucleotide substitutions leading to amino acid substitutions at "non-essential" amino acid residues. A "non-essential" amino acid residue is a residue that can be altered from the wild-type

sequence without altering the biological activity, whereas an "essential" amino acid residue is required for biological activity. For example, amino acid residues that are not conserved or only semi-conserved among homologs of various species may be non-essential for activity and thus would be likely targets for alteration. Alternatively, amino acid residues that are conserved among the homologs of various species (*e.g.*, murine and human) may be essential for activity and thus would not be likely targets for alteration.

Accordingly, another aspect of the invention pertains to nucleic acid molecules encoding a polypeptide of the invention that contain changes in amino acid residues that are not essential for activity. Such polypeptides differ in amino acid sequence from the naturally-occurring proteins which correspond to the markers of the invention, yet retain biological activity. In one embodiment, such a protein has an amino acid sequence that is at least about 40% identical, 50%, 60%, 70%, 80%, 90%, 95%, or 98% identical to the amino acid sequence of one of the proteins which correspond to the markers of the invention.

An isolated nucleic acid molecule encoding a variant protein can be created by introducing one or more nucleotide substitutions, additions or deletions into the nucleotide sequence of nucleic acids of the invention, such that one or more amino acid residue substitutions, additions, or deletions are introduced into the encoded protein. Mutations can be introduced by standard techniques, such as site-directed mutagenesis and PCR-mediated mutagenesis. Preferably, conservative amino acid substitutions are made at one or more predicted non-essential amino acid residues. A "conservative amino acid substitution" is one in which the amino acid residue is replaced with an amino acid residue having a similar side chain. Families of amino acid residues having similar side chains have been defined in the art. These families include amino acids with basic side chains (*e.g.*, lysine, arginine, histidine), acidic side chains (*e.g.*, aspartic acid, glutamic acid), uncharged polar side chains (*e.g.*, glycine, asparagine, glutamine, serine, threonine, tyrosine, cysteine), non-polar side chains (*e.g.*, alanine, valine, leucine, isoleucine, proline, phenylalanine, methionine, tryptophan), beta-branched side chains (*e.g.*, threonine, valine, isoleucine) and aromatic side chains (*e.g.*, tyrosine, phenylalanine, tryptophan, histidine). Alternatively, mutations can be introduced randomly along all or part of the coding sequence, such as by saturation mutagenesis,

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and the resultant mutants can be screened for biological activity to identify mutants that retain activity. Following mutagenesis, the encoded protein can be expressed recombinantly and the activity of the protein can be determined.

The present invention encompasses antisense nucleic acid molecules, *i.e.*,
5 molecules which are complementary to a sense nucleic acid of the invention, *e.g.*, complementary to the coding strand of a double-stranded cDNA molecule corresponding to a marker of the invention or complementary to an mRNA sequence corresponding to a marker of the invention. Accordingly, an antisense nucleic acid of the invention can hydrogen bond to (*i.e.* anneal with) a sense nucleic acid of the
10 invention. The antisense nucleic acid can be complementary to an entire coding strand, or to only a portion thereof, *e.g.*, all or part of the protein coding region (or open reading frame). An antisense nucleic acid molecule can also be antisense to all or part of a non-coding region of the coding strand of a nucleotide sequence encoding a polypeptide of the invention. The non-coding regions ("5' and 3' untranslated regions") are the 5' and 3'
15 sequences which flank the coding region and are not translated into amino acids.

An antisense oligonucleotide can be, for example, about 5, 10, 15, 20, 25, 30, 35, 40, 45, or 50 or more nucleotides in length. An antisense nucleic acid of the invention can be constructed using chemical synthesis and enzymatic ligation reactions using procedures known in the art. For example, an antisense nucleic acid (*e.g.*, an antisense
20 oligonucleotide) can be chemically synthesized using naturally occurring nucleotides or variously modified nucleotides designed to increase the biological stability of the molecules or to increase the physical stability of the duplex formed between the antisense and sense nucleic acids, *e.g.*, phosphorothioate derivatives and acridine substituted nucleotides can be used. Examples of modified nucleotides which can be
25 used to generate the antisense nucleic acid include 5-fluorouracil, 5-bromouracil, 5-chlorouracil, 5-iodouracil, hypoxanthine, xanthine, 4-acetylcytosine, 5-(carboxyhydroxymethyl) uracil, 5-carboxymethylaminomethyl-2-thiouridine, 5-carboxymethylaminomethyluracil, dihydrouracil, beta-D-galactosylqueosine, inosine, N6-isopentenyladenine, 1-methylguanine, 1-methylinosine, 2,2-dimethylguanine, 2-
30 methyladenine, 2-methylguanine, 3-methylcytosine, 5-methylcytosine, N6-adenine, 7-methylguanine, 5-methylaminomethyluracil, 5-methoxyaminomethyl-2-thiouracil, beta-D-mannosylqueosine, 5'-methoxycarboxymethyluracil, 5-methoxyuracil, 2-methylthio-

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N6-isopentenyladenine, uracil-5-oxyacetic acid (v), wybutoxosine, pseudouracil, queosine, 2-thiocytosine, 5-methyl-2-thiouracil, 2-thiouracil, 4-thiouracil, 5-methyluracil, uracil-5-oxyacetic acid methylester, uracil-5-oxyacetic acid (v), 5-methyl-2-thiouracil, 3-(3-amino-3-N-2-carboxypropyl) uracil, (acp3)w, and 2,6-diaminopurine.

5 Alternatively, the antisense nucleic acid can be produced biologically using an expression vector into which a nucleic acid has been sub-cloned in an antisense orientation (*i.e.*, RNA transcribed from the inserted nucleic acid will be of an antisense orientation to a target nucleic acid of interest, described further in the following subsection).

10 The antisense nucleic acid molecules of the invention are typically administered to a subject or generated *in situ* such that they hybridize with or bind to cellular mRNA and/or genomic DNA encoding a polypeptide corresponding to a selected marker of the invention to thereby inhibit expression of the marker, *e.g.*, by inhibiting transcription and/or translation. The hybridization can be by conventional nucleotide
15 complementarity to form a stable duplex, or, for example, in the case of an antisense nucleic acid molecule which binds to DNA duplexes, through specific interactions in the major groove of the double helix. Examples of a route of administration of antisense nucleic acid molecules of the invention includes direct injection at a tissue site or infusion of the antisense nucleic acid into an breast-associated body fluid. Alternatively,
20 antisense nucleic acid molecules can be modified to target selected cells and then administered systemically. For example, for systemic administration, antisense molecules can be modified such that they specifically bind to receptors or antigens expressed on a selected cell surface, *e.g.*, by linking the antisense nucleic acid molecules to peptides or antibodies which bind to cell surface receptors or antigens. The antisense
25 nucleic acid molecules can also be delivered to cells using the vectors described herein. To achieve sufficient intracellular concentrations of the antisense molecules, vector constructs in which the antisense nucleic acid molecule is placed under the control of a strong pol II or pol III promoter are preferred.

An antisense nucleic acid molecule of the invention can be an α -anomeric nucleic
30 acid molecule. An α -anomeric nucleic acid molecule forms specific double-stranded hybrids with complementary RNA in which, contrary to the usual α -units, the strands run parallel to each other (Gaultier *et al.*, 1987, *Nucleic Acids Res.* 15:6625-6641). The

antisense nucleic acid molecule can also comprise a 2'-o-methylribonucleotide (Inoue *et al.*, 1987, *Nucleic Acids Res.* 15:6131-6148) or a chimeric RNA-DNA analogue (Inoue *et al.*, 1987, *FEBS Lett.* 215:327-330).

The invention also encompasses ribozymes. Ribozymes are catalytic RNA
5 molecules with ribonuclease activity which are capable of cleaving a single-stranded nucleic acid, such as an mRNA, to which they have a complementary region. Thus, ribozymes (*e.g.*, hammerhead ribozymes as described in Haselhoff and Gerlach, 1988, *Nature* 334:585-591) can be used to catalytically cleave mRNA transcripts to thereby inhibit translation of the protein encoded by the mRNA. A ribozyme having specificity
10 for a nucleic acid molecule encoding a polypeptide corresponding to a marker of the invention can be designed based upon the nucleotide sequence of a cDNA corresponding to the marker. For example, a derivative of a *Tetrahymena* L-19 IVS RNA can be constructed in which the nucleotide sequence of the active site is complementary to the nucleotide sequence to be cleaved (see Cech *et al.* U.S. Patent No.
15 4,987,071; and Cech *et al.* U.S. Patent No. 5,116,742). Alternatively, an mRNA encoding a polypeptide of the invention can be used to select a catalytic RNA having a specific ribonuclease activity from a pool of RNA molecules (see, *e.g.*, Bartel and Szostak, 1993, *Science* 261:1411-1418).

The invention also encompasses nucleic acid molecules which form triple helical
20 structures. For example, expression of a polypeptide of the invention can be inhibited by targeting nucleotide sequences complementary to the regulatory region of the gene encoding the polypeptide (*e.g.*, the promoter and/or enhancer) to form triple helical structures that prevent transcription of the gene in target cells. See generally Helene (1991) *Anticancer Drug Des.* 6(6):569-84; Helene (1992) *Ann. N.Y. Acad. Sci.* 660:27-
25 36; and Maher (1992) *Bioassays* 14(12):807-15.

In various embodiments, the nucleic acid molecules of the invention can be modified at the base moiety, sugar moiety or phosphate backbone to improve, *e.g.*, the stability, hybridization, or solubility of the molecule. For example, the deoxyribose phosphate backbone of the nucleic acids can be modified to generate peptide nucleic
30 acids (see Hyrup *et al.*, 1996, *Bioorganic & Medicinal Chemistry* 4(1): 5-23). As used herein, the terms "peptide nucleic acids" or "PNAs" refer to nucleic acid mimics, *e.g.*, DNA mimics, in which the deoxyribose phosphate backbone is replaced by a

pseudopeptide backbone and only the four natural nucleobases are retained. The neutral backbone of PNAs has been shown to allow for specific hybridization to DNA and RNA under conditions of low ionic strength. The synthesis of PNA oligomers can be performed using standard solid phase peptide synthesis protocols as described in Hyrup
5 *et al.* (1996), *supra*; Perry-O'Keefe *et al.* (1996) *Proc. Natl. Acad. Sci. USA* 93:14670-675.

PNAs can be used in therapeutic and diagnostic applications. For example, PNAs can be used as antisense or antigene agents for sequence-specific modulation of gene expression by, *e.g.*, inducing transcription or translation arrest or inhibiting replication.
10 PNAs can also be used, *e.g.*, in the analysis of single base pair mutations in a gene by, *e.g.*, PNA directed PCR clamping; as artificial restriction enzymes when used in combination with other enzymes, *e.g.*, S1 nucleases (Hyrup (1996), *supra*; or as probes or primers for DNA sequence and hybridization (Hyrup, 1996, *supra*; Perry-O'Keefe *et al.*, 1996, *Proc. Natl. Acad. Sci. USA* 93:14670-675).

15 In another embodiment, PNAs can be modified, *e.g.*, to enhance their stability or cellular uptake, by attaching lipophilic or other helper groups to PNA, by the formation of PNA-DNA chimeras, or by the use of liposomes or other techniques of drug delivery known in the art. For example, PNA-DNA chimeras can be generated which can combine the advantageous properties of PNA and DNA. Such chimeras allow DNA
20 recognition enzymes, *e.g.*, RNASE H and DNA polymerases, to interact with the DNA portion while the PNA portion would provide high binding affinity and specificity. PNA-DNA chimeras can be linked using linkers of appropriate lengths selected in terms of base stacking, number of bonds between the nucleobases, and orientation (Hyrup, 1996, *supra*). The synthesis of PNA-DNA chimeras can be performed as described in
25 Hyrup (1996), *supra*, and Finn *et al.* (1996) *Nucleic Acids Res.* 24(17):3357-63. For example, a DNA chain can be synthesized on a solid support using standard phosphoramidite coupling chemistry and modified nucleoside analogs. Compounds such as 5'-(4-methoxytrityl)amino-5'-deoxy-thymidine phosphoramidite can be used as a link between the PNA and the 5' end of DNA (Mag *et al.*, 1989, *Nucleic Acids Res.*
30 17:5973-88). PNA monomers are then coupled in a step-wise manner to produce a chimeric molecule with a 5' PNA segment and a 3' DNA segment (Finn *et al.*, 1996, *Nucleic Acids Res.* 24(17):3357-63). Alternatively, chimeric molecules can be

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synthesized with a 5' DNA segment and a 3' PNA segment (Peterser *et al.*, 1975, *Bioorganic Med. Chem. Lett.* 5:1119-11124).

In other embodiments, the oligonucleotide can include other appended groups such as peptides (*e.g.*, for targeting host cell receptors *in vivo*), or agents facilitating
5 transport across the cell membrane (see, *e.g.*, Letsinger *et al.*, 1989, *Proc. Natl. Acad. Sci. USA* 86:6553-6556; Lemaitre *et al.*, 1987, *Proc. Natl. Acad. Sci. USA* 84:648-652; PCT Publication No. WO 88/09810) or the blood-brain barrier (see, *e.g.*, PCT Publication No. WO 89/10134). In addition, oligonucleotides can be modified with hybridization-triggered cleavage agents (see, *e.g.*, Krol *et al.*, 1988, *Bio/Techniques*
10 6:958-976) or intercalating agents (see, *e.g.*, Zon, 1988, *Pharm. Res.* 5:539-549). To this end, the oligonucleotide can be conjugated to another molecule, *e.g.*, a peptide, hybridization triggered cross-linking agent, transport agent, hybridization-triggered cleavage agent, etc.

The invention also includes molecular beacon nucleic acids having at least one
15 region which is complementary to a nucleic acid of the invention, such that the molecular beacon is useful for quantitating the presence of the nucleic acid of the invention in a sample. A "molecular beacon" nucleic acid is a nucleic acid comprising a pair of complementary regions and having a fluorophore and a fluorescent quencher associated therewith. The fluorophore and quencher are associated with different
20 portions of the nucleic acid in such an orientation that when the complementary regions are annealed with one another, fluorescence of the fluorophore is quenched by the quencher. When the complementary regions of the nucleic acid are not annealed with one another, fluorescence of the fluorophore is quenched to a lesser degree. Molecular beacon nucleic acids are described, for example, in U.S. Patent 5,876,930.

25

II. Isolated Proteins and Antibodies

One aspect of the invention pertains to isolated proteins which correspond to individual markers of the invention, and biologically active portions thereof, as well as polypeptide fragments suitable for use as immunogens to raise antibodies directed
30 against a polypeptide corresponding to a marker of the invention. In one embodiment, the native polypeptide corresponding to a marker can be isolated from cells or tissue sources by an appropriate purification scheme using standard protein purification

techniques. In another embodiment, polypeptides corresponding to a marker of the invention are produced by recombinant DNA techniques. Alternative to recombinant expression, a polypeptide corresponding to a marker of the invention can be synthesized chemically using standard peptide synthesis techniques.

5 An "isolated" or "purified" protein or biologically active portion thereof is substantially free of cellular material or other contaminating proteins from the cell or tissue source from which the protein is derived, or substantially free of chemical precursors or other chemicals when chemically synthesized. The language "substantially free of cellular material" includes preparations of protein in which the
10 protein is separated from cellular components of the cells from which it is isolated or recombinantly produced. Thus, protein that is substantially free of cellular material includes preparations of protein having less than about 30%, 20%, 10%, or 5% (by dry weight) of heterologous protein (also referred to herein as a "contaminating protein"). When the protein or biologically active portion thereof is recombinantly produced, it is
15 also preferably substantially free of culture medium, *i.e.*, culture medium represents less than about 20%, 10%, or 5% of the volume of the protein preparation. When the protein is produced by chemical synthesis, it is preferably substantially free of chemical precursors or other chemicals, *i.e.*, it is separated from chemical precursors or other chemicals which are involved in the synthesis of the protein. Accordingly such
20 preparations of the protein have less than about 30%, 20%, 10%, 5% (by dry weight) of chemical precursors or compounds other than the polypeptide of interest.

Biologically active portions of a polypeptide corresponding to a marker of the invention include polypeptides comprising amino acid sequences sufficiently identical to or derived from the amino acid sequence of the protein corresponding to the marker,
25 which include fewer amino acids than the full length protein, and exhibit at least one activity of the corresponding full-length protein. Typically, biologically active portions comprise a domain or motif with at least one activity of the corresponding protein. A biologically active portion of a protein of the invention can be a polypeptide which is, for example, 10, 25, 50, 100 or more amino acids in length. Moreover, other
30 biologically active portions, in which other regions of the protein are deleted, can be prepared by recombinant techniques and evaluated for one or more of the functional activities of the native form of a polypeptide of the invention.

Preferred polypeptides have amino acid sequences encoded by the nucleic acid sequences described herein. Other useful proteins are substantially identical (*e.g.*, at least about 40%, preferably 50%, 60%, 70%, 80%, 90%, 95%, or 99%) to one of these sequences and retain the functional activity of the protein of the corresponding
5 naturally-occurring protein yet differ in amino acid sequence due to natural allelic variation or mutagenesis.

To determine the percent identity of two amino acid sequences or of two nucleic acids, the sequences are aligned for optimal comparison purposes (*e.g.*, gaps can be introduced in the sequence of a first amino acid or nucleic acid sequence for optimal
10 alignment with a second amino or nucleic acid sequence). The amino acid residues or nucleotides at corresponding amino acid positions or nucleotide positions are then compared. When a position in the first sequence is occupied by the same amino acid residue or nucleotide as the corresponding position in the second sequence, then the molecules are identical at that position. The percent identity between the two sequences
15 is a function of the number of identical positions shared by the sequences (*i.e.*, % identity = # of identical positions/total # of positions (*e.g.*, overlapping positions) $\times 100$). In one embodiment the two sequences are the same length.

The determination of percent identity between two sequences can be accomplished using a mathematical algorithm. A preferred, non-limiting example of a
20 mathematical algorithm utilized for the comparison of two sequences is the algorithm of Karlin and Altschul (1990) *Proc. Natl. Acad. Sci. USA* 87:2264-2268, modified as in Karlin and Altschul (1993) *Proc. Natl. Acad. Sci. USA* 90:5873-5877. Such an algorithm is incorporated into the NBLAST and XBLAST programs of Altschul, *et al.* (1990) *J. Mol. Biol.* 215:403-410. BLAST nucleotide searches can be performed with
25 the NBLAST program, score = 100, wordlength = 12 to obtain nucleotide sequences homologous to a nucleic acid molecules of the invention. BLAST protein searches can be performed with the XBLAST program, score = 50, wordlength = 3 to obtain amino acid sequences homologous to a protein molecules of the invention. To obtain gapped alignments for comparison purposes, Gapped BLAST can be utilized as described in
30 Altschul *et al.* (1997) *Nucleic Acids Res.* 25:3389-3402. Alternatively, PSI-Blast can be used to perform an iterated search which detects distant relationships between molecules. When utilizing BLAST, Gapped BLAST, and PSI-Blast programs, the

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default parameters of the respective programs (*e.g.*, XBLAST and NBLAST) can be used. See <http://www.ncbi.nlm.nih.gov>. Another preferred, non-limiting example of a mathematical algorithm utilized for the comparison of sequences is the algorithm of Myers and Miller, (1988) *CABIOS* 4:11-17. Such an algorithm is incorporated into the

5 ALIGN program (version 2.0) which is part of the GCG sequence alignment software package. When utilizing the ALIGN program for comparing amino acid sequences, a PAM120 weight residue table, a gap length penalty of 12, and a gap penalty of 4 can be used. Yet another useful algorithm for identifying regions of local sequence similarity and alignment is the FASTA algorithm as described in Pearson and Lipman (1988)

10 *Proc. Natl. Acad. Sci. USA* 85:2444-2448. When using the FASTA algorithm for comparing nucleotide or amino acid sequences, a PAM120 weight residue table can, for example, be used with a *k*-tuple value of 2.

The percent identity between two sequences can be determined using techniques similar to those described above, with or without allowing gaps. In calculating percent

15 identity, only exact matches are counted.

The invention also provides chimeric or fusion proteins corresponding to a marker of the invention. As used herein, a "chimeric protein" or "fusion protein" comprises all or part (preferably a biologically active part) of a polypeptide corresponding to a marker of the invention operably linked to a heterologous

20 polypeptide (*i.e.*, a polypeptide other than the polypeptide corresponding to the marker). Within the fusion protein, the term "operably linked" is intended to indicate that the polypeptide of the invention and the heterologous polypeptide are fused in-frame to each other. The heterologous polypeptide can be fused to the amino-terminus or the carboxyl-terminus of the polypeptide of the invention.

25 One useful fusion protein is a GST fusion protein in which a polypeptide corresponding to a marker of the invention is fused to the carboxyl terminus of GST sequences. Such fusion proteins can facilitate the purification of a recombinant polypeptide of the invention.

In another embodiment, the fusion protein contains a heterologous signal

30 sequence at its amino terminus. For example, the native signal sequence of a polypeptide corresponding to a marker of the invention can be removed and replaced with a signal sequence from another protein. For example, the gp67 secretory sequence

of the baculovirus envelope protein can be used as a heterologous signal sequence (Ausubel *et al.*, ed., *Current Protocols in Molecular Biology*, John Wiley & Sons, NY, 1992). Other examples of eukaryotic heterologous signal sequences include the secretory sequences of melittin and human placental alkaline phosphatase (Stratagene; 5 La Jolla, California). In yet another example, useful prokaryotic heterologous signal sequences include the phoA secretory signal (Sambrook *et al.*, *supra*) and the protein A secretory signal (Pharmacia Biotech; Piscataway, New Jersey).

In yet another embodiment, the fusion protein is an immunoglobulin fusion protein in which all or part of a polypeptide corresponding to a marker of the invention 10 is fused to sequences derived from a member of the immunoglobulin protein family. The immunoglobulin fusion proteins of the invention can be incorporated into pharmaceutical compositions and administered to a subject to inhibit an interaction between a ligand (soluble or membrane-bound) and a protein on the surface of a cell (receptor), to thereby suppress signal transduction *in vivo*. The immunoglobulin fusion 15 protein can be used to affect the bioavailability of a cognate ligand of a polypeptide of the invention. Inhibition of ligand/receptor interaction can be useful therapeutically, both for treating proliferative and differentiative disorders and for modulating (*e.g.* promoting or inhibiting) cell survival. Moreover, the immunoglobulin fusion proteins of the invention can be used as immunogens to produce antibodies directed against a 20 polypeptide of the invention in a subject, to purify ligands and in screening assays to identify molecules which inhibit the interaction of receptors with ligands.

Chimeric and fusion proteins of the invention can be produced by standard recombinant DNA techniques. In another embodiment, the fusion gene can be synthesized by conventional techniques including automated DNA synthesizers. 25 Alternatively, PCR amplification of gene fragments can be carried out using anchor primers which give rise to complementary overhangs between two consecutive gene fragments which can subsequently be annealed and re-amplified to generate a chimeric gene sequence (see, *e.g.*, Ausubel *et al.*, *supra*). Moreover, many expression vectors are commercially available that already encode a fusion moiety (*e.g.*, a GST polypeptide). 30 A nucleic acid encoding a polypeptide of the invention can be cloned into such an expression vector such that the fusion moiety is linked in-frame to the polypeptide of the invention.

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A signal sequence can be used to facilitate secretion and isolation of the secreted protein or other proteins of interest. Signal sequences are typically characterized by a core of hydrophobic amino acids which are generally cleaved from the mature protein during secretion in one or more cleavage events. Such signal peptides contain

5 processing sites that allow cleavage of the signal sequence from the mature proteins as they pass through the secretory pathway. Thus, the invention pertains to the described polypeptides having a signal sequence, as well as to polypeptides from which the signal sequence has been proteolytically cleaved (*i.e.*, the cleavage products). In one embodiment, a nucleic acid sequence encoding a signal sequence can be operably linked

10 in an expression vector to a protein of interest, such as a protein which is ordinarily not secreted or is otherwise difficult to isolate. The signal sequence directs secretion of the protein, such as from a eukaryotic host into which the expression vector is transformed, and the signal sequence is subsequently or concurrently cleaved. The protein can then be readily purified from the extracellular medium by art recognized methods.

15 Alternatively, the signal sequence can be linked to the protein of interest using a sequence which facilitates purification, such as with a GST domain.

The present invention also pertains to variants of the polypeptides corresponding to individual markers of the invention. Such variants have an altered amino acid sequence which can function as either agonists (mimetics) or as antagonists. Variants

20 can be generated by mutagenesis, *e.g.*, discrete point mutation or truncation. An agonist can retain substantially the same, or a subset, of the biological activities of the naturally occurring form of the protein. An antagonist of a protein can inhibit one or more of the activities of the naturally occurring form of the protein by, for example, competitively binding to a downstream or upstream member of a cellular signaling cascade which

25 includes the protein of interest. Thus, specific biological effects can be elicited by treatment with a variant of limited function. Treatment of a subject with a variant having a subset of the biological activities of the naturally occurring form of the protein can have fewer side effects in a subject relative to treatment with the naturally occurring form of the protein.

30 Variants of a protein of the invention which function as either agonists (mimetics) or as antagonists can be identified by screening combinatorial libraries of mutants, *e.g.*, truncation mutants, of the protein of the invention for agonist or antagonist activity. In

one embodiment, a variegated library of variants is generated by combinatorial mutagenesis at the nucleic acid level and is encoded by a variegated gene library. A variegated library of variants can be produced by, for example, enzymatically ligating a mixture of synthetic oligonucleotides into gene sequences such that a degenerate set of potential protein sequences is expressible as individual polypeptides, or alternatively, as a set of larger fusion proteins (e.g., for phage display). There are a variety of methods which can be used to produce libraries of potential variants of the polypeptides of the invention from a degenerate oligonucleotide sequence. Methods for synthesizing degenerate oligonucleotides are known in the art (see, e.g., Narang, 1983, *Tetrahedron* 39:3; Itakura *et al.*, 1984, *Annu. Rev. Biochem.* 53:323; Itakura *et al.*, 1984, *Science* 198:1056; Ike *et al.*, 1983 *Nucleic Acid Res.* 11:477).

In addition, libraries of fragments of the coding sequence of a polypeptide corresponding to a marker of the invention can be used to generate a variegated population of polypeptides for screening and subsequent selection of variants. For example, a library of coding sequence fragments can be generated by treating a double stranded PCR fragment of the coding sequence of interest with a nuclease under conditions wherein nicking occurs only about once per molecule, denaturing the double stranded DNA, renaturing the DNA to form double stranded DNA which can include sense/antisense pairs from different nicked products, removing single stranded portions from reformed duplexes by treatment with S1 nuclease, and ligating the resulting fragment library into an expression vector. By this method, an expression library can be derived which encodes amino terminal and internal fragments of various sizes of the protein of interest.

Several techniques are known in the art for screening gene products of combinatorial libraries made by point mutations or truncation, and for screening cDNA libraries for gene products having a selected property. The most widely used techniques, which are amenable to high through-put analysis, for screening large gene libraries typically include cloning the gene library into replicable expression vectors, transforming appropriate cells with the resulting library of vectors, and expressing the combinatorial genes under conditions in which detection of a desired activity facilitates isolation of the vector encoding the gene whose product was detected. Recursive ensemble mutagenesis (REM), a technique which enhances the frequency of functional

mutants in the libraries, can be used in combination with the screening assays to identify variants of a protein of the invention (Arkin and Yourvan, 1992, *Proc. Natl. Acad. Sci. USA* 89:7811-7815; Delgrave *et al.*, 1993, *Protein Engineering* 6(3):327-331).

An isolated polypeptide corresponding to a marker of the invention, or a fragment thereof, can be used as an immunogen to generate antibodies using standard techniques for polyclonal and monoclonal antibody preparation. The full-length polypeptide or protein can be used or, alternatively, the invention provides antigenic peptide fragments for use as immunogens. The antigenic peptide of a protein of the invention comprises at least 8 (preferably 10, 15, 20, or 30 or more) amino acid residues of the amino acid sequence of one of the polypeptides of the invention, and encompasses an epitope of the protein such that an antibody raised against the peptide forms a specific immune complex with a marker of the invention to which the protein corresponds. Preferred epitopes encompassed by the antigenic peptide are regions that are located on the surface of the protein, *e.g.*, hydrophilic regions. Hydrophobicity sequence analysis, hydrophilicity sequence analysis, or similar analyses can be used to identify hydrophilic regions.

An immunogen typically is used to prepare antibodies by immunizing a suitable (*i.e.* immunocompetent) subject such as a rabbit, goat, mouse, or other mammal or vertebrate. An appropriate immunogenic preparation can contain, for example, recombinantly-expressed or chemically-synthesized polypeptide. The preparation can further include an adjuvant, such as Freund's complete or incomplete adjuvant, or a similar immunostimulatory agent.

Accordingly, another aspect of the invention pertains to antibodies directed against a polypeptide of the invention. The terms "antibody" and "antibody substance" as used interchangeably herein refer to immunoglobulin molecules and immunologically active portions of immunoglobulin molecules, *i.e.*, molecules that contain an antigen binding site which specifically binds an antigen, such as a polypeptide of the invention, *e.g.*, an epitope of a polypeptide of the invention. A molecule which specifically binds to a given polypeptide of the invention is a molecule which binds the polypeptide, but does not substantially bind other molecules in a sample, *e.g.*, a biological sample, which naturally contains the polypeptide. Examples of immunologically active portions of immunoglobulin molecules include F(ab) and F(ab')₂ fragments which can be generated

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by treating the antibody with an enzyme such as pepsin. The invention provides polyclonal and monoclonal antibodies. The term "monoclonal antibody" or "monoclonal antibody composition", as used herein, refers to a population of antibody molecules that contain only one species of an antigen binding site capable of immunoreacting with a particular epitope.

5 Polyclonal antibodies can be prepared as described above by immunizing a suitable subject with a polypeptide of the invention as an immunogen. Preferred polyclonal antibody compositions are ones that have been selected for antibodies directed against a polypeptide or polypeptides of the invention. Particularly preferred polyclonal antibody preparations are ones that contain only antibodies directed against a polypeptide or polypeptides of the invention. Particularly preferred immunogen compositions are those that contain no other human proteins such as, for example, immunogen compositions made using a non-human host cell for recombinant expression of a polypeptide of the invention. In such a manner, the only human epitope or epitopes recognized by the resulting antibody compositions raised against this immunogen will be present as part of a polypeptide or polypeptides of the invention.

The antibody titer in the immunized subject can be monitored over time by standard techniques, such as with an enzyme linked immunosorbent assay (ELISA) using immobilized polypeptide. If desired, the antibody molecules can be harvested or isolated from the subject (*e.g.*, from the blood or serum of the subject) and further purified by well-known techniques, such as protein A chromatography to obtain the IgG fraction. Alternatively, antibodies specific for a protein or polypeptide of the invention can be selected or (*e.g.*, partially purified) or purified by, *e.g.*, affinity chromatography. For example, a recombinantly expressed and purified (or partially purified) protein of the invention is produced as described herein, and covalently or non-covalently coupled to a solid support such as, for example, a chromatography column. The column can then be used to affinity purify antibodies specific for the proteins of the invention from a sample containing antibodies directed against a large number of different epitopes, thereby generating a substantially purified antibody composition, *i.e.*, one that is substantially free of contaminating antibodies. By a substantially purified antibody composition is meant, in this context, that the antibody sample contains at most only 30% (by dry weight) of contaminating antibodies directed against epitopes other than

those of the desired protein or polypeptide of the invention, and preferably at most 20%, yet more preferably at most 10%, and most preferably at most 5% (by dry weight) of the sample is contaminating antibodies. A purified antibody composition means that at least 99% of the antibodies in the composition are directed against the desired protein or

5 polypeptide of the invention.

At an appropriate time after immunization, *e.g.*, when the specific antibody titers are highest, antibody-producing cells can be obtained from the subject and used to prepare monoclonal antibodies by standard techniques, such as the hybridoma technique originally described by Kohler and Milstein (1975) *Nature* 256:495-497, the human B

10 cell hybridoma technique (see Kozbor *et al.*, 1983, *Immunol. Today* 4:72), the EBV-hybridoma technique (see Cole *et al.*, pp. 77-96 In *Monoclonal Antibodies and Cancer Therapy*, Alan R. Liss, Inc., 1985) or trioma techniques. The technology for producing hybridomas is well known (see generally *Current Protocols in Immunology*, Coligan *et al.* ed., John Wiley & Sons, New York, 1994). Hybridoma cells producing a

15 monoclonal antibody of the invention are detected by screening the hybridoma culture supernatants for antibodies that bind the polypeptide of interest, *e.g.*, using a standard ELISA assay.

Alternative to preparing monoclonal antibody-secreting hybridomas, a monoclonal antibody directed against a polypeptide of the invention can be identified

20 and isolated by screening a recombinant combinatorial immunoglobulin library (*e.g.*, an antibody phage display library) with the polypeptide of interest. Kits for generating and screening phage display libraries are commercially available (*e.g.*, the Pharmacia *Recombinant Phage Antibody System*, Catalog No. 27-9400-01; and the Stratagene *SurfZAP Phage Display Kit*, Catalog No. 240612). Additionally, examples of methods

25 and reagents particularly amenable for use in generating and screening antibody display library can be found in, for example, U.S. Patent No. 5,223,409; PCT Publication No. WO 92/18619; PCT Publication No. WO 91/17271; PCT Publication No. WO 92/20791; PCT Publication No. WO 92/15679; PCT Publication No. WO 93/01288; PCT Publication No. WO 92/01047; PCT Publication No. WO 92/09690; PCT

30 Publication No. WO 90/02809; Fuchs *et al.* (1991) *Bio/Technology* 9:1370-1372; Hay *et al.* (1992) *Hum. Antibod. Hybridomas* 3:81-85; Huse *et al.* (1989) *Science* 246:1275-1281; Griffiths *et al.* (1993) *EMBO J.* 12:725-734.

Additionally, recombinant antibodies, such as chimeric and humanized monoclonal antibodies, comprising both human and non-human portions, which can be made using standard recombinant DNA techniques, are within the scope of the invention. A chimeric antibody is a molecule in which different portions are derived from different animal species, such as those having a variable region derived from a murine mAb and a human immunoglobulin constant region. (See, *e.g.*, Cabilly *et al.*, U.S. Patent No. 4,816,567; and Boss *et al.*, U.S. Patent No. 4,816,397, which are incorporated herein by reference in their entirety.) Humanized antibodies are antibody molecules from non-human species having one or more complementarily determining regions (CDRs) from the non-human species and a framework region from a human immunoglobulin molecule. (See, *e.g.*, Queen, U.S. Patent No. 5,585,089, which is incorporated herein by reference in its entirety.) Such chimeric and humanized monoclonal antibodies can be produced by recombinant DNA techniques known in the art, for example using methods described in PCT Publication No. WO 87/02671; European Patent Application 184,187; European Patent Application 171,496; European Patent Application 173,494; PCT Publication No. WO 86/01533; U.S. Patent No. 4,816,567; European Patent Application 125,023; Better *et al.* (1988) *Science* 240:1041-1043; Liu *et al.* (1987) *Proc. Natl. Acad. Sci. USA* 84:3439-3443; Liu *et al.* (1987) *J. Immunol.* 139:3521-3526; Sun *et al.* (1987) *Proc. Natl. Acad. Sci. USA* 84:214-218; Nishimura *et al.* (1987) *Cancer Res.* 47:999-1005; Wood *et al.* (1985) *Nature* 314:446-449; and Shaw *et al.* (1988) *J. Natl. Cancer Inst.* 80:1553-1559; Morrison (1985) *Science* 229:1202-1207; Oi *et al.* (1986) *Bio/Techniques* 4:214; U.S. Patent 5,225,539; Jones *et al.* (1986) *Nature* 321:552-525; Verhoeyan *et al.* (1988) *Science* 239:1534; and Beidler *et al.* (1988) *J. Immunol.* 141:4053-4060.

Antibodies of the invention may be used as therapeutic agents in treating cancers. In a preferred embodiment, completely human antibodies of the invention are used for therapeutic treatment of human cancer patients, particularly those having breast cancer. Such antibodies can be produced, for example, using transgenic mice which are incapable of expressing endogenous immunoglobulin heavy and light chains genes, but which can express human heavy and light chain genes. The transgenic mice are immunized in the normal fashion with a selected antigen, *e.g.*, all or a portion of a polypeptide corresponding to a marker of the invention. Monoclonal antibodies directed

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against the antigen can be obtained using conventional hybridoma technology. The human immunoglobulin transgenes harbored by the transgenic mice rearrange during B cell differentiation, and subsequently undergo class switching and somatic mutation. Thus, using such a technique, it is possible to produce therapeutically useful IgG, IgA and IgE antibodies. For an overview of this technology for producing human antibodies, see Lonberg and Huszar (1995) *Int. Rev. Immunol.* 13:65-93). For a detailed discussion of this technology for producing human antibodies and human monoclonal antibodies and protocols for producing such antibodies, see, e.g., U.S. Patent 5,625,126; U.S. Patent 5,633,425; U.S. Patent 5,569,825; U.S. Patent 5,661,016; and U.S. Patent 5,545,806. In addition, companies such as Abgenix, Inc. (Freemont, CA), can be engaged to provide human antibodies directed against a selected antigen using technology similar to that described above.

Completely human antibodies which recognize a selected epitope can be generated using a technique referred to as "guided selection." In this approach a selected non-human monoclonal antibody, e.g., a murine antibody, is used to guide the selection of a completely human antibody recognizing the same epitope (Jespers *et al.*, 1994, *Bio/technology* 12:899-903).

An antibody directed against a polypeptide corresponding to a marker of the invention (e.g., a monoclonal antibody) can be used to isolate the polypeptide by standard techniques, such as affinity chromatography or immunoprecipitation. Moreover, such an antibody can be used to detect the marker (e.g., in a cellular lysate or cell supernatant) in order to evaluate the level and pattern of expression of the marker. The antibodies can also be used diagnostically to monitor protein levels in tissues or body fluids (e.g. in an ovary-associated body fluid) as part of a clinical testing procedure, e.g., to, for example, determine the efficacy of a given treatment regimen. Detection can be facilitated by coupling the antibody to a detectable substance. Examples of detectable substances include various enzymes, prosthetic groups, fluorescent materials, luminescent materials, bioluminescent materials, and radioactive materials. Examples of suitable enzymes include horseradish peroxidase, alkaline phosphatase, β -galactosidase, or acetylcholinesterase; examples of suitable prosthetic group complexes include streptavidin/biotin and avidin/biotin; examples of suitable fluorescent materials include umbelliferone, fluorescein, fluorescein isothiocyanate,

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rhodamine, dichlorotriazinylamine fluorescein, dansyl chloride or phycoerythrin; an example of a luminescent material includes luminol; examples of bioluminescent materials include luciferase, luciferin, and aequorin, and examples of suitable radioactive material include ^{125}I , ^{131}I , ^{35}S or ^3H .

- 5 Further, an antibody (or fragment thereof) can be conjugated to a therapeutic moiety such as a cytotoxin, a therapeutic agent or a radioactive metal ion. A cytotoxin or cytotoxic agent includes any agent that is detrimental to cells. Examples include taxol, cytochalasin B, gramicidin D, ethidium bromide, emetine, mitomycin, etoposide, tenoposide, vincristine, vinblastine, colchicin, doxorubicin, daunorubicin, 10 dihydroxy anthracin dione, mitoxantrone, mithramycin, actinomycin D, 1-dehydrotestosterone, glucocorticoids, procaine, tetracaine, lidocaine, propranolol, and puromycin and analogs or homologs thereof. Therapeutic agents include, but are not limited to, antimetabolites (*e.g.*, methotrexate, 6-mercaptopurine, 6-thioguanine, cytarabine, 5-fluorouracil decarbazine), alkylating agents (*e.g.*, mechlorethamine, 15 thioepa chlorambucil, melphalan, carmustine (BSNU) and lomustine (CCNU), cyclophosphamide, busulfan, dibromomannitol, streptozotocin, mitomycin C, and cis-dichlorodiamine platinum (II) (DDP) cisplatin), anthracyclines (*e.g.*, daunorubicin (formerly daunomycin) and doxorubicin), antibiotics (*e.g.*, dactinomycin (formerly actinomycin), bleomycin, mithramycin, and anthramycin (AMC)), and anti-mitotic 20 agents (*e.g.*, vincristine and vinblastine).

- The conjugates of the invention can be used for modifying a given biological response, the drug moiety is not to be construed as limited to classical chemical therapeutic agents. For example, the drug moiety may be a protein or polypeptide possessing a desired biological activity. Such proteins may include, for example, a toxin 25 such as abrin, ricin A, pseudomonas exotoxin, or diphtheria toxin; a protein such as tumor necrosis factor, .alpha.-interferon, .beta.-interferon, nerve growth factor, platelet derived growth factor, tissue plasminogen activator; or, biological response modifiers such as, for example, lymphokines, interleukin-1 ("IL-1"), interleukin-2 ("IL-2"), interleukin-6 ("IL-6"), granulocyte macrophage colony stimulating factor ("GM-CSF"), 30 granulocyte colony stimulating factor ("G-CSF"), or other growth factors.

Techniques for conjugating such therapeutic moiety to antibodies are well known, see, e.g., Arnon et al., "Monoclonal Antibodies For Immunotargeting Of Drugs In Cancer Therapy", in Monoclonal Antibodies And Cancer Therapy, Reisfeld et al. (eds.), pp. 243-56 (Alan R. Liss, Inc. 1985); Hellstrom et al., "Antibodies For Drug Delivery", in Controlled Drug Delivery (2nd Ed.), Robinson et al. (eds.), pp. 623-53 (Marcel Dekker, Inc. 1987); Thorpe, "Antibody Carriers Of Cytotoxic Agents In Cancer Therapy: A Review", in Monoclonal Antibodies '84: Biological And Clinical Applications, Pinchera et al. (eds.), pp. 475-506 (1985); "Analysis, Results, And Future Prospective Of The Therapeutic Use Of Radiolabeled Antibody In Cancer Therapy", in Monoclonal Antibodies For Cancer Detection And Therapy, Baldwin et al. (eds.), pp. 303-16 (Academic Press 1985), and Thorpe et al., "The Preparation And Cytotoxic Properties Of Antibody-Toxin Conjugates", Immunol. Rev., 62:119-58 (1982).

Alternatively, an antibody can be conjugated to a second antibody to form an antibody heteroconjugate as described by Segal in U.S. Patent No. 4,676,980.

Accordingly, in one aspect, the invention provides substantially purified antibodies or fragments thereof, and non-human antibodies or fragments thereof, which antibodies or fragments specifically bind to a polypeptide comprising an amino acid sequence selected from the group consisting of the amino acid sequences of the present invention, an amino acid sequence encoded by the cDNA of the present invention, a fragment of at least 15 amino acid residues of an amino acid sequence of the present invention, an amino acid sequence which is at least 95% identical to the amino acid sequence of the present invention (wherein the percent identity is determined using the ALIGN program of the GCG software package with a PAM120 weight residue table, a gap length penalty of 12, and a gap penalty of 4) and an amino acid sequence which is encoded by a nucleic acid molecule which hybridizes to a nucleic acid molecule consisting of the nucleic acid molecules of the present invention, or a complement thereof, under conditions of hybridization of 6X SSC at 45°C and washing in 0.2 X SSC, 0.1% SDS at 65°C. In various embodiments, the substantially purified antibodies of the invention, or fragments thereof, can be human, non-human, chimeric and/or humanized antibodies.

In another aspect, the invention provides non-human antibodies or fragments thereof, which antibodies or fragments specifically bind to a polypeptide comprising an amino acid sequence selected from the group consisting of: the amino acid sequence of

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the present invention, an amino acid sequence encoded by the cDNA of the present invention, a fragment of at least 15 amino acid residues of the amino acid sequence of the present invention, an amino acid sequence which is at least 95% identical to the amino acid sequence of the present invention (wherein the percent identity is determined
5 using the ALIGN program of the GCG software package with a PAM120 weight residue table, a gap length penalty of 12, and a gap penalty of 4) and an amino acid sequence which is encoded by a nucleic acid molecule which hybridizes to a nucleic acid molecule consisting of the nucleic acid molecules of the present invention, or a complement thereof, under conditions of hybridization of 6X SSC at 45°C and washing
10 in 0.2 X SSC, 0.1% SDS at 65°C. Such non-human antibodies can be goat, mouse, sheep, horse, chicken, rabbit, or rat antibodies. Alternatively, the non-human antibodies of the invention can be chimeric and/or humanized antibodies. In addition, the non-human antibodies of the invention can be polyclonal antibodies or monoclonal antibodies.

15 In still a further aspect, the invention provides monoclonal antibodies or fragments thereof, which antibodies or fragments specifically bind to a polypeptide comprising an amino acid sequence selected from the group consisting of the amino acid sequences of the present invention, an amino acid sequence encoded by the cDNA of the present invention, a fragment of at least 15 amino acid residues of an amino acid
20 sequence of the present invention, an amino acid sequence which is at least 95% identical to an amino acid sequence of the present invention (wherein the percent identity is determined using the ALIGN program of the GCG software package with a PAM120 weight residue table, a gap length penalty of 12, and a gap penalty of 4) and an amino acid sequence which is encoded by a nucleic acid molecule which hybridizes to a
25 nucleic acid molecule consisting of the nucleic acid molecules of the present invention, or a complement thereof, under conditions of hybridization of 6X SSC at 45°C and washing in 0.2 X SSC, 0.1% SDS at 65°C. The monoclonal antibodies can be human, humanized, chimeric and/or non-human antibodies.

The substantially purified antibodies or fragments thereof may specifically bind
30 to a signal peptide, a secreted sequence, an extracellular domain, a transmembrane or a cytoplasmic domain or cytoplasmic membrane of a polypeptide of the invention. In a particularly preferred embodiment, the substantially purified antibodies or fragments

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thereof, the non-human antibodies or fragments thereof, and/or the monoclonal antibodies or fragments thereof, of the invention specifically bind to a secreted sequence or an extracellular domain of the amino acid sequences of the present invention.

Any of the antibodies of the invention can be conjugated to a therapeutic moiety
5 or to a detectable substance. Non-limiting examples of detectable substances that can be conjugated to the antibodies of the invention are an enzyme, a prosthetic group, a fluorescent material, a luminescent material, a bioluminescent material, and a radioactive material.

The invention also provides a kit containing an antibody of the invention
10 conjugated to a detectable substance, and instructions for use. Still another aspect of the invention is a pharmaceutical composition comprising an antibody of the invention and a pharmaceutically acceptable carrier. In preferred embodiments, the pharmaceutical composition contains an antibody of the invention, a therapeutic moiety, and a pharmaceutically acceptable carrier.

15 Still another aspect of the invention is a method of making an antibody that specifically recognizes a polypeptide of the present invention, the method comprising immunizing a mammal with a polypeptide. The polypeptide used as an immugen comprises an amino acid sequence selected from the group consisting of the amino acid sequence of the present invention, an amino acid sequence encoded by the cDNA of the
20 nucleic acid molecules of the present invention, a fragment of at least 15 amino acid residues of the amino acid sequence of the present invention, an amino acid sequence which is at least 95% identical to the amino acid sequence of the present invention (wherein the percent identity is determined using the ALIGN program of the GCG software package with a PAM120 weight residue table, a gap length penalty of 12, and a
25 gap penalty of 4) and an amino acid sequence which is encoded by a nucleic acid molecule which hybridizes to a nucleic acid molecule consisting of the nucleic acid molecules of the present invention, or a complement thereof, under conditions of hybridization of 6X SSC at 45°C and washing in 0.2 X SSC, 0.1% SDS at 65°C.

After immunization, a sample is collected from the mammal that contains an
30 antibody that specifically recognizes the polypeptide. Preferably, the polypeptide is recombinantly produced using a non-human host cell. Optionally, the antibodies can be further purified from the sample using techniques well known to those of skill in the art.

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The method can further comprise producing a monoclonal antibody-producing cell from the cells of the mammal. Optionally, antibodies are collected from the antibody-producing cell.

5 III. Recombinant Expression Vectors and Host Cells

Another aspect of the invention pertains to vectors, preferably expression vectors, containing a nucleic acid encoding a polypeptide corresponding to a marker of the invention (or a portion of such a polypeptide). As used herein, the term "vector" refers to a nucleic acid molecule capable of transporting another nucleic acid to which it has
10 been linked. One type of vector is a "plasmid", which refers to a circular double stranded DNA loop into which additional DNA segments can be ligated. Another type of vector is a viral vector, wherein additional DNA segments can be ligated into the viral genome. Certain vectors are capable of autonomous replication in a host cell into which they are introduced (e.g., bacterial vectors having a bacterial origin of replication and
15 episomal mammalian vectors). Other vectors (e.g., non-episomal mammalian vectors) are integrated into the genome of a host cell upon introduction into the host cell, and thereby are replicated along with the host genome. Moreover, certain vectors, namely expression vectors, are capable of directing the expression of genes to which they are operably linked. In general, expression vectors of utility in recombinant DNA
20 techniques are often in the form of plasmids (vectors). However, the invention is intended to include such other forms of expression vectors, such as viral vectors (e.g., replication defective retroviruses, adenoviruses and adeno-associated viruses), which serve equivalent functions.

The recombinant expression vectors of the invention comprise a nucleic acid of
25 the invention in a form suitable for expression of the nucleic acid in a host cell. This means that the recombinant expression vectors include one or more regulatory sequences, selected on the basis of the host cells to be used for expression, which is operably linked to the nucleic acid sequence to be expressed. Within a recombinant expression vector, "operably linked" is intended to mean that the nucleotide sequence of
30 interest is linked to the regulatory sequence(s) in a manner which allows for expression of the nucleotide sequence (e.g., in an *in vitro* transcription/translation system or in a host cell when the vector is introduced into the host cell). The term "regulatory

sequence" is intended to include promoters, enhancers and other expression control elements (*e.g.*, polyadenylation signals). Such regulatory sequences are described, for example, in Goeddel, *Methods in Enzymology: Gene Expression Technology* vol.185, Academic Press, San Diego, CA (1991). Regulatory sequences include those which
5 direct constitutive expression of a nucleotide sequence in many types of host cell and those which direct expression of the nucleotide sequence only in certain host cells (*e.g.*, tissue-specific regulatory sequences). It will be appreciated by those skilled in the art that the design of the expression vector can depend on such factors as the choice of the host cell to be transformed, the level of expression of protein desired, and the like. The
10 expression vectors of the invention can be introduced into host cells to thereby produce proteins or peptides, including fusion proteins or peptides, encoded by nucleic acids as described herein.

The recombinant expression vectors of the invention can be designed for expression of a polypeptide corresponding to a marker of the invention in prokaryotic
15 (*e.g.*, *E. coli*) or eukaryotic cells (*e.g.*, insect cells {using baculovirus expression vectors}, yeast cells or mammalian cells). Suitable host cells are discussed further in Goeddel, *supra*. Alternatively, the recombinant expression vector can be transcribed and translated *in vitro*, for example using T7 promoter regulatory sequences and T7 polymerase.

20 Expression of proteins in prokaryotes is most often carried out in *E. coli* with vectors containing constitutive or inducible promoters directing the expression of either fusion or non-fusion proteins. Fusion vectors add a number of amino acids to a protein encoded therein, usually to the amino terminus of the recombinant protein. Such fusion vectors typically serve three purposes: 1) to increase expression of recombinant protein;
25 2) to increase the solubility of the recombinant protein; and 3) to aid in the purification of the recombinant protein by acting as a ligand in affinity purification. Often, in fusion expression vectors, a proteolytic cleavage site is introduced at the junction of the fusion moiety and the recombinant protein to enable separation of the recombinant protein from the fusion moiety subsequent to purification of the fusion protein. Such enzymes,
30 and their cognate recognition sequences, include Factor Xa, thrombin and enterokinase. Typical fusion expression vectors include pGEX (Pharmacia Biotech Inc; Smith and Johnson, 1988, *Gene* 67:31-40), pMAL (New England Biolabs, Beverly, MA) and

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pRIT5 (Pharmacia, Piscataway, NJ) which fuse glutathione S-transferase (GST), maltose E binding protein, or protein A, respectively, to the target recombinant protein.

Examples of suitable inducible non-fusion *E. coli* expression vectors include pTrc (Amann *et al.*, 1988, *Gene* 69:301-315) and pET 11d (Studier *et al.*, p. 60-89, In *Gene Expression Technology: Methods in Enzymology* vol.185, Academic Press, San Diego, CA, 1991). Target gene expression from the pTrc vector relies on host RNA polymerase transcription from a hybrid trp-lac fusion promoter. Target gene expression from the pET 11d vector relies on transcription from a T7 *gn10*-lac fusion promoter mediated by a co-expressed viral RNA polymerase (T7 *gn1*). This viral polymerase is supplied by host strains BL21(DE3) or HMS174(DE3) from a resident prophage harboring a T7 *gn1* gene under the transcriptional control of the lacUV 5 promoter.

One strategy to maximize recombinant protein expression in *E. coli* is to express the protein in a host bacteria with an impaired capacity to proteolytically cleave the recombinant protein (Gottesman, p. 119-128, In *Gene Expression Technology: Methods in Enzymology* vol. 185, Academic Press, San Diego, CA, 1990). Another strategy is to alter the nucleic acid sequence of the nucleic acid to be inserted into an expression vector so that the individual codons for each amino acid are those preferentially utilized in *E. coli* (Wada *et al.*, 1992, *Nucleic Acids Res.* 20:2111-2118). Such alteration of nucleic acid sequences of the invention can be carried out by standard DNA synthesis techniques.

In another embodiment, the expression vector is a yeast expression vector. Examples of vectors for expression in yeast *S. cerevisiae* include pYepSec1 (Baldari *et al.*, 1987, *EMBO J.* 6:229-234), pMFa (Kurjan and Herskowitz, 1982, *Cell* 30:933-943), pJRY88 (Schultz *et al.*, 1987, *Gene* 54:113-123), pYES2 (Invitrogen Corporation, San Diego, CA), and pPicZ (Invitrogen Corp, San Diego, CA).

Alternatively, the expression vector is a baculovirus expression vector. Baculovirus vectors available for expression of proteins in cultured insect cells (*e.g.*, Sf 9 cells) include the pAc series (Smith *et al.*, 1983, *Mol. Cell Biol.* 3:2156-2165) and the pVL series (Lucklow and Summers, 1989, *Virology* 170:31-39).

In yet another embodiment, a nucleic acid of the invention is expressed in mammalian cells using a mammalian expression vector. Examples of mammalian expression vectors include pCDM8 (Seed, 1987, *Nature* 329:840) and pMT2PC

(Kaufman *et al.*, 1987, *EMBO J.* 6:187-195). When used in mammalian cells, the expression vector's control functions are often provided by viral regulatory elements. For example, commonly used promoters are derived from polyoma, Adenovirus 2, cytomegalovirus and Simian Virus 40. For other suitable expression systems for both
5 prokaryotic and eukaryotic cells see chapters 16 and 17 of Sambrook *et al.*, *supra*.

In another embodiment, the recombinant mammalian expression vector is capable of directing expression of the nucleic acid preferentially in a particular cell type (*e.g.*, tissue-specific regulatory elements are used to express the nucleic acid). Tissue-specific regulatory elements are known in the art. Non-limiting examples of suitable tissue-specific promoters include the albumin promoter (liver-specific; Pinkert *et al.*, 1987, *Genes Dev.* 1:268-277), lymphoid-specific promoters (Calame and Eaton, 1988, *Adv. Immunol.* 43:235-275), in particular promoters of T cell receptors (Winoto and Baltimore, 1989, *EMBO J.* 8:729-733) and immunoglobulins (Banerji *et al.*, 1983, *Cell* 33:729-740; Queen and Baltimore, 1983, *Cell* 33:741-748), neuron-specific promoters
10 (*e.g.*, the neurofilament promoter; Byrne and Ruddle, 1989, *Proc. Natl. Acad. Sci. USA* 86:5473-5477), pancreas-specific promoters (Edlund *et al.*, 1985, *Science* 230:912-916), and mammary gland-specific promoters (*e.g.*, milk whey promoter; U.S. Patent No. 4,873,316 and European Application Publication No. 264,166). Developmentally-regulated promoters are also encompassed, for example the murine hox promoters
15 (Kessel and Gruss, 1990, *Science* 249:374-379) and the α -fetoprotein promoter (Camper and Tilghman, 1989, *Genes Dev.* 3:537-546).

The invention further provides a recombinant expression vector comprising a DNA molecule of the invention cloned into the expression vector in an antisense orientation. That is, the DNA molecule is operably linked to a regulatory sequence in a
25 manner which allows for expression (by transcription of the DNA molecule) of an RNA molecule which is antisense to the mRNA encoding a polypeptide of the invention. Regulatory sequences operably linked to a nucleic acid cloned in the antisense orientation can be chosen which direct the continuous expression of the antisense RNA molecule in a variety of cell types, for instance viral promoters and/or enhancers, or
30 regulatory sequences can be chosen which direct constitutive, tissue-specific or cell type specific expression of antisense RNA. The antisense expression vector can be in the form of a recombinant plasmid, phagemid, or attenuated virus in which antisense nucleic

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acids are produced under the control of a high efficiency regulatory region, the activity of which can be determined by the cell type into which the vector is introduced. For a discussion of the regulation of gene expression using antisense genes see Weintraub *et al.*, 1986, *Trends in Genetics*, Vol. 1(1).

5 Another aspect of the invention pertains to host cells into which a recombinant expression vector of the invention has been introduced. The terms "host cell" and "recombinant host cell" are used interchangeably herein. It is understood that such terms refer not only to the particular subject cell but to the progeny or potential progeny of such a cell. Because certain modifications may occur in succeeding generations due
10 to either mutation or environmental influences, such progeny may not, in fact, be identical to the parent cell, but are still included within the scope of the term as used herein.

A host cell can be any prokaryotic (*e.g.*, *E. coli*) or eukaryotic cell (*e.g.*, insect cells, yeast or mammalian cells).

15 Vector DNA can be introduced into prokaryotic or eukaryotic cells via conventional transformation or transfection techniques. As used herein, the terms "transformation" and "transfection" are intended to refer to a variety of art-recognized techniques for introducing foreign nucleic acid into a host cell, including calcium phosphate or calcium chloride co-precipitation, DEAE-dextran-mediated transfection,
20 lipofection, or electroporation. Suitable methods for transforming or transfecting host cells can be found in Sambrook, *et al.* (*supra*), and other laboratory manuals.

For stable transfection of mammalian cells, it is known that, depending upon the expression vector and transfection technique used, only a small fraction of cells may integrate the foreign DNA into their genome. In order to identify and select these
25 integrants, a gene that encodes a selectable marker (*e.g.*, for resistance to antibiotics) is generally introduced into the host cells along with the gene of interest. Preferred selectable markers include those which confer resistance to drugs, such as G418, hygromycin and methotrexate. Cells stably transfected with the introduced nucleic acid can be identified by drug selection (*e.g.*, cells that have incorporated the selectable
30 marker gene will survive, while the other cells die).

A host cell of the invention, such as a prokaryotic or eukaryotic host cell in culture, can be used to produce a polypeptide corresponding to a marker of the invention. Accordingly, the invention further provides methods for producing a polypeptide corresponding to a marker of the invention using the host cells of the invention. In one embodiment, the method comprises culturing the host cell of invention (into which a recombinant expression vector encoding a polypeptide of the invention has been introduced) in a suitable medium such that the marker is produced. In another embodiment, the method further comprises isolating the marker polypeptide from the medium or the host cell.

10 The host cells of the invention can also be used to produce nonhuman transgenic animals. For example, in one embodiment, a host cell of the invention is a fertilized oocyte or an embryonic stem cell into which a sequences encoding a polypeptide corresponding to a marker of the invention have been introduced. Such host cells can then be used to create non-human transgenic animals in which exogenous sequences
15 encoding a marker protein of the invention have been introduced into their genome or homologous recombinant animals in which endogenous gene(s) encoding a polypeptide corresponding to a marker of the invention sequences have been altered. Such animals are useful for studying the function and/or activity of the polypeptide corresponding to the marker and for identifying and/or evaluating modulators of polypeptide activity. As
20 used herein, a "transgenic animal" is a non-human animal, preferably a mammal, more preferably a rodent such as a rat or mouse, in which one or more of the cells of the animal includes a transgene. Other examples of transgenic animals include non-human primates, sheep, dogs, cows, goats, chickens, amphibians, etc. A transgene is exogenous DNA which is integrated into the genome of a cell from which a transgenic animal
25 develops and which remains in the genome of the mature animal, thereby directing the expression of an encoded gene product in one or more cell types or tissues of the transgenic animal. As used herein, an "homologous recombinant animal" is a non-human animal, preferably a mammal, more preferably a mouse, in which an endogenous gene has been altered by homologous recombination between the endogenous gene and
30 an exogenous DNA molecule introduced into a cell of the animal, e.g., an embryonic cell of the animal, prior to development of the animal.

A transgenic animal of the invention can be created by introducing a nucleic acid encoding a polypeptide corresponding to a marker of the invention into the male pronuclei of a fertilized oocyte, *e.g.*, by microinjection, retroviral infection, and allowing the oocyte to develop in a pseudopregnant female foster animal. Intronic sequences and polyadenylation signals can also be included in the transgene to increase the efficiency of expression of the transgene. A tissue-specific regulatory sequence(s) can be operably linked to the transgene to direct expression of the polypeptide of the invention to particular cells. Methods for generating transgenic animals via embryo manipulation and microinjection, particularly animals such as mice, have become conventional in the art and are described, for example, in U.S. Patent Nos. 4,736,866 and 4,870,009, U.S. Patent No. 4,873,191 and in Hogan, *Manipulating the Mouse Embryo*, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, N.Y., 1986. Similar methods are used for production of other transgenic animals. A transgenic founder animal can be identified based upon the presence of the transgene in its genome and/or expression of mRNA encoding the transgene in tissues or cells of the animals. A transgenic founder animal can then be used to breed additional animals carrying the transgene. Moreover, transgenic animals carrying the transgene can further be bred to other transgenic animals carrying other transgenes.

To create an homologous recombinant animal, a vector is prepared which contains at least a portion of a gene encoding a polypeptide corresponding to a marker of the invention into which a deletion, addition or substitution has been introduced to thereby alter, *e.g.*, functionally disrupt, the gene. In a preferred embodiment, the vector is designed such that, upon homologous recombination, the endogenous gene is functionally disrupted (*i.e.*, no longer encodes a functional protein; also referred to as a "knock out" vector). Alternatively, the vector can be designed such that, upon homologous recombination, the endogenous gene is mutated or otherwise altered but still encodes functional protein (*e.g.*, the upstream regulatory region can be altered to thereby alter the expression of the endogenous protein). In the homologous recombination vector, the altered portion of the gene is flanked at its 5' and 3' ends by additional nucleic acid of the gene to allow for homologous recombination to occur between the exogenous gene carried by the vector and an endogenous gene in an embryonic stem cell. The additional flanking nucleic acid sequences are of sufficient

length for successful homologous recombination with the endogenous gene. Typically, several kilobases of flanking DNA (both at the 5' and 3' ends) are included in the vector (see, *e.g.*, Thomas and Capecchi, 1987, *Cell* 51:503 for a description of homologous recombination vectors). The vector is introduced into an embryonic stem cell line (*e.g.*,
5 by electroporation) and cells in which the introduced gene has homologously recombined with the endogenous gene are selected (see, *e.g.*, Li *et al.*, 1992, *Cell* 69:915). The selected cells are then injected into a blastocyst of an animal (*e.g.*, a mouse) to form aggregation chimeras (see, *e.g.*, Bradley, *Teratocarcinomas and Embryonic Stem Cells: A Practical Approach*, Robertson, Ed., IRL, Oxford, 1987, pp.
10 113-152). A chimeric embryo can then be implanted into a suitable pseudopregnant female foster animal and the embryo brought to term. Progeny harboring the homologously recombined DNA in their germ cells can be used to breed animals in which all cells of the animal contain the homologously recombined DNA by germline transmission of the transgene. Methods for constructing homologous recombination
15 vectors and homologous recombinant animals are described further in Bradley (1991) *Current Opinion in Bio/Technology* 2:823-829 and in PCT Publication NOS. WO 90/11354, WO 91/01140, WO 92/0968, and WO 93/04169.

In another embodiment, transgenic non-human animals can be produced which contain selected systems which allow for regulated expression of the transgene. One
20 example of such a system is the *cre/loxP* recombinase system of bacteriophage P1. For a description of the *cre/loxP* recombinase system, see, *e.g.*, Lakso *et al.* (1992) *Proc. Natl. Acad. Sci. USA* 89:6232-6236. Another example of a recombinase system is the FLP recombinase system of *Saccharomyces cerevisiae* (O'Gorman *et al.*, 1991, *Science* 251:1351-1355). If a *cre/loxP* recombinase system is used to regulate expression of the
25 transgene, animals containing transgenes encoding both the *Cre* recombinase and a selected protein are required. Such animals can be provided through the construction of "double" transgenic animals, *e.g.*, by mating two transgenic animals, one containing a transgene encoding a selected protein and the other containing a transgene encoding a recombinase.

30 Clones of the non-human transgenic animals described herein can also be produced according to the methods described in Wilmut *et al.* (1997) *Nature* 385:810-813 and PCT Publication NOS. WO 97/07668 and WO 97/07669.

IV. Pharmaceutical Compositions

- The nucleic acid molecules, polypeptides, and antibodies (also referred to herein as "active compounds") corresponding to a marker of the invention can be incorporated
- 5 into pharmaceutical compositions suitable for administration. Such compositions typically comprise the nucleic acid molecule, protein, or antibody and a pharmaceutically acceptable carrier. As used herein the language "pharmaceutically acceptable carrier" is intended to include any and all solvents, dispersion media, coatings, antibacterial and antifungal agents, isotonic and absorption delaying agents,
- 10 and the like, compatible with pharmaceutical administration. The use of such media and agents for pharmaceutically active substances is well known in the art. Except insofar as any conventional media or agent is incompatible with the active compound, use thereof in the compositions is contemplated. Supplementary active compounds can also be incorporated into the compositions.
- 15 The invention includes methods for preparing pharmaceutical compositions for modulating the expression or activity of a polypeptide or nucleic acid corresponding to a marker of the invention. Such methods comprise formulating a pharmaceutically acceptable carrier with an agent which modulates expression or activity of a polypeptide or nucleic acid corresponding to a marker of the invention. Such compositions can
- 20 further include additional active agents. Thus, the invention further includes methods for preparing a pharmaceutical composition by formulating a pharmaceutically acceptable carrier with an agent which modulates expression or activity of a polypeptide or nucleic acid corresponding to a marker of the invention and one or more additional active compounds.
- 25 The invention also provides methods (also referred to herein as "screening assays") for identifying modulators, *i.e.*, candidate or test compounds or agents (*e.g.*, peptides, peptidomimetics, peptoids, small molecules or other drugs) which (a) bind to the marker, or (b) have a modulatory (*e.g.*, stimulatory or inhibitory) effect on the activity of the marker or, more specifically, (c) have a modulatory effect on the
- 30 interactions of the marker with one or more of its natural substrates (*e.g.*, peptide, protein, hormone, co-factor, or nucleic acid), or (d) have a modulatory effect on the expression of the marker. Such assays typically comprise a reaction between the marker

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and one or more assay components. The other components may be either the test compound itself, or a combination of test compound and a natural binding partner of the marker.

The test compounds of the present invention may be obtained from any available
5 source, including systematic libraries of natural and/or synthetic compounds. Test compounds may also be obtained by any of the numerous approaches in combinatorial library methods known in the art, including: biological libraries; peptoid libraries (libraries of molecules having the functionalities of peptides, but with a novel, non-peptide backbone which are resistant to enzymatic degradation but which nevertheless
10 remain bioactive; see, *e.g.*, Zuckermann *et al.*, 1994, *J. Med. Chem.* 37:2678-85); spatially addressable parallel solid phase or solution phase libraries; synthetic library methods requiring deconvolution; the 'one-bead one-compound' library method; and synthetic library methods using affinity chromatography selection. The biological library and peptoid library approaches are limited to peptide libraries, while the other
15 four approaches are applicable to peptide, non-peptide oligomer or small molecule libraries of compounds (Lam, 1997, *Anticancer Drug Des.* 12:145).

Examples of methods for the synthesis of molecular libraries can be found in the art, for example in: DeWitt *et al.* (1993) *Proc. Natl. Acad. Sci. U.S.A.* 90:6909; Erb *et al.* (1994) *Proc. Natl. Acad. Sci. USA* 91:11422; Zuckermann *et al.* (1994). *J. Med.*
20 *Chem.* 37:2678; Cho *et al.* (1993) *Science* 261:1303; Carrell *et al.* (1994) *Angew. Chem. Int. Ed. Engl.* 33:2059; Carell *et al.* (1994) *Angew. Chem. Int. Ed. Engl.* 33:2061; and in Gallop *et al.* (1994) *J. Med. Chem.* 37:1233.

Libraries of compounds may be presented in solution (*e.g.*, Houghten, 1992, *Biotechniques* 13:412-421), or on beads (Lam, 1991, *Nature* 354:82-84), chips (Fodor,
25 1993, *Nature* 364:555-556), bacteria and/or spores, (Ladner, USP 5,223,409), plasmids (Cull *et al.*, 1992, *Proc Natl Acad Sci USA* 89:1865-1869) or on phage (Scott and Smith, 1990, *Science* 249:386-390; Devlin, 1990, *Science* 249:404-406; Cwirla *et al.*, 1990, *Proc. Natl. Acad. Sci.* 87:6378-6382; Felici, 1991, *J. Mol. Biol.* 222:301-310; Ladner, *supra.*).

30 In one embodiment, the invention provides assays for screening candidate or test compounds which are substrates of a marker or biologically active portion thereof. In another embodiment, the invention provides assays for screening candidate or test

compounds which bind to a marker or biologically active portion thereof. Determining the ability of the test compound to directly bind to a marker can be accomplished, for example, by coupling the compound with a radioisotope or enzymatic label such that binding of the compound to the marker can be determined by detecting the labeled
5 marker compound in a complex. For example, compounds (*e.g.*, marker substrates) can be labeled with ^{125}I , ^{35}S , ^{14}C , or ^3H , either directly or indirectly, and the radioisotope detected by direct counting of radioemission or by scintillation counting. Alternatively, assay components can be enzymatically labeled with, for example, horseradish peroxidase, alkaline phosphatase, or luciferase, and the enzymatic label detected by
10 determination of conversion of an appropriate substrate to product.

In another embodiment, the invention provides assays for screening candidate or test compounds which modulate the activity of a marker or a biologically active portion thereof. In all likelihood, the marker can, *in vivo*, interact with one or more molecules, such as but not limited to, peptides, proteins, hormones, cofactors and nucleic acids. For
15 the purposes of this discussion, such cellular and extracellular molecules are referred to herein as "binding partners" or marker "substrate".

One necessary embodiment of the invention in order to facilitate such screening is the use of the marker to identify its natural *in vivo* binding partners. There are many ways to accomplish this which are known to one skilled in the art. One example is the
20 use of the marker protein as "bait protein" in a two-hybrid assay or three-hybrid assay (see, *e.g.*, U.S. Patent No. 5,283,317; Zervos *et al*, 1993, *Cell* 72:223-232; Madura *et al*, 1993, *J. Biol. Chem.* 268:12046-12054; Bartel *et al*, 1993, *Biotechniques* 14:920-924; Iwabuchi *et al*, 1993 *Oncogene* 8:1693-1696; Brent WO94/10300) in order to identify other proteins which bind to or interact with the marker (binding partners) and,
25 therefore, are possibly involved in the natural function of the marker. Such marker binding partners are also likely to be involved in the propagation of signals by the marker or downstream elements of a marker-mediated signaling pathway. Alternatively, such marker binding partners may also be found to be inhibitors of the marker.

The two-hybrid system is based on the modular nature of most transcription
30 factors, which consist of separable DNA-binding and activation domains. Briefly, the assay utilizes two different DNA constructs. In one construct, the gene that encodes a marker protein fused to a gene encoding the DNA binding domain of a known

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transcription factor (*e.g.*, GAL-4). In the other construct, a DNA sequence, from a library of DNA sequences, that encodes an unidentified protein ("prey" or "sample") is fused to a gene that codes for the activation domain of the known transcription factor. If the "bait" and the "prey" proteins are able to interact, *in vivo*, forming a marker-
5 dependent complex, the DNA-binding and activation domains of the transcription factor are brought into close proximity. This proximity allows transcription of a reporter gene (*e.g.*, LacZ) which is operably linked to a transcriptional regulatory site responsive to the transcription factor. Expression of the reporter gene can be readily detected and cell colonies containing the functional transcription factor can be isolated and used to obtain
10 the cloned gene which encodes the protein which interacts with the marker protein.

In a further embodiment, assays may be devised through the use of the invention for the purpose of identifying compounds which modulate (*e.g.*, affect either positively or negatively) interactions between a marker and its substrates and/or binding partners. Such compounds can include, but are not limited to, molecules such as antibodies,
15 peptides, hormones, oligonucleotides, nucleic acids, and analogs thereof. Such compounds may also be obtained from any available source, including systematic libraries of natural and/or synthetic compounds. The preferred assay components for use in this embodiment is an breast cancer marker identified herein, the known binding partner and/or substrate of same, and the test compound. Test compounds can be
20 supplied from any source.

The basic principle of the assay systems used to identify compounds that interfere with the interaction between the marker and its binding partner involves preparing a reaction mixture containing the marker and its binding partner under conditions and for a time sufficient to allow the two products to interact and bind, thus forming a complex.
25 In order to test an agent for inhibitory activity, the reaction mixture is prepared in the presence and absence of the test compound. The test compound can be initially included in the reaction mixture, or can be added at a time subsequent to the addition of the marker and its binding partner. Control reaction mixtures are incubated without the test compound or with a placebo. The formation of any complexes between the marker and
30 its binding partner is then detected. The formation of a complex in the control reaction, but less or no such formation in the reaction mixture containing the test compound, indicates that the compound interferes with the interaction of the marker and its binding

partner. Conversely, the formation of more complex in the presence of compound than in the control reaction indicates that the compound may enhance interaction of the marker and its binding partner.

The assay for compounds that interfere with the interaction of the marker with its binding partner may be conducted in a heterogeneous or homogeneous format. Heterogeneous assays involve anchoring either the marker or its binding partner onto a solid phase and detecting complexes anchored to the solid phase at the end of the reaction. In homogeneous assays, the entire reaction is carried out in a liquid phase. In either approach, the order of addition of reactants can be varied to obtain different information about the compounds being tested. For example, test compounds that interfere with the interaction between the markers and the binding partners (*e.g.*, by competition) can be identified by conducting the reaction in the presence of the test substance, *i.e.*, by adding the test substance to the reaction mixture prior to or simultaneously with the marker and its interactive binding partner. Alternatively, test compounds that disrupt preformed complexes, *e.g.*, compounds with higher binding constants that displace one of the components from the complex, can be tested by adding the test compound to the reaction mixture after complexes have been formed. The various formats are briefly described below.

In a heterogeneous assay system, either the marker or its binding partner is anchored onto a solid surface or matrix, while the other corresponding non-anchored component may be labeled, either directly or indirectly. In practice, microtitre plates are often utilized for this approach. The anchored species can be immobilized by a number of methods, either non-covalent or covalent, that are typically well known to one who practices the art. Non-covalent attachment can often be accomplished simply by coating the solid surface with a solution of the marker or its binding partner and drying. Alternatively, an immobilized antibody specific for the assay component to be anchored can be used for this purpose. Such surfaces can often be prepared in advance and stored.

In related embodiments, a fusion protein can be provided which adds a domain that allows one or both of the assay components to be anchored to a matrix. For example, glutathione-S-transferase/marker fusion proteins or glutathione-S-transferase/binding partner can be adsorbed onto glutathione sepharose beads (Sigma Chemical, St. Louis, MO) or glutathione derivatized microtiter plates, which are then

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combined with the test compound or the test compound and either the non-adsorbed marker or its binding partner, and the mixture incubated under conditions conducive to complex formation (*e.g.*, physiological conditions). Following incubation, the beads or microtiter plate wells are washed to remove any unbound assay components, the

5 immobilized complex assessed either directly or indirectly, for example, as described above. Alternatively, the complexes can be dissociated from the matrix, and the level of marker binding or activity determined using standard techniques.

Other techniques for immobilizing proteins on matrices can also be used in the screening assays of the invention. For example, either a marker or a marker binding

10 partner can be immobilized utilizing conjugation of biotin and streptavidin. Biotinylated marker protein or target molecules can be prepared from biotin-NHS (N-hydroxy-succinimide) using techniques known in the art (*e.g.*, biotinylation kit, Pierce Chemicals, Rockford, IL), and immobilized in the wells of streptavidin-coated 96 well plates (Pierce Chemical). In certain embodiments, the protein-immobilized surfaces can be prepared in

15 advance and stored.

In order to conduct the assay, the corresponding partner of the immobilized assay component is exposed to the coated surface with or without the test compound. After the reaction is complete, unreacted assay components are removed (*e.g.*, by washing) and any complexes formed will remain immobilized on the solid surface. The detection

20 of complexes anchored on the solid surface can be accomplished in a number of ways. Where the non-immobilized component is pre-labeled, the detection of label immobilized on the surface indicates that complexes were formed. Where the non-immobilized component is not pre-labeled, an indirect label can be used to detect complexes anchored on the surface; *e.g.*, using a labeled antibody specific for the

25 initially non-immobilized species (the antibody, in turn, can be directly labeled or indirectly labeled with, *e.g.*, a labeled anti-Ig antibody). Depending upon the order of addition of reaction components, test compounds which modulate (*inhibit or enhance*) complex formation or which disrupt preformed complexes can be detected.

In an alternate embodiment of the invention, a homogeneous assay may be used.

30 This is typically a reaction, analogous to those mentioned above, which is conducted in a liquid phase in the presence or absence of the test compound. The formed complexes are then separated from unreacted components, and the amount of complex formed is

determined. As mentioned for heterogeneous assay systems, the order of addition of reactants to the liquid phase can yield information about which test compounds modulate (inhibit or enhance) complex formation and which disrupt preformed complexes.

5 In such a homogeneous assay, the reaction products may be separated from unreacted assay components by any of a number of standard techniques, including but not limited to: differential centrifugation, chromatography, electrophoresis and immunoprecipitation. In differential centrifugation, complexes of molecules may be separated from uncomplexed molecules through a series of centrifugal steps, due to the
10 different sedimentation equilibria of complexes based on their different sizes and densities (see, for example, Rivas, G., and Minton, A.P., *Trends Biochem Sci* 1993 Aug;18(8):284-7). Standard chromatographic techniques may also be utilized to separate complexed molecules from uncomplexed ones. For example, gel filtration chromatography separates molecules based on size, and through the utilization of an
15 appropriate gel filtration resin in a column format, for example, the relatively larger complex may be separated from the relatively smaller uncomplexed components. Similarly, the relatively different charge properties of the complex as compared to the uncomplexed molecules may be exploited to differentially separate the complex from the remaining individual reactants, for example through the use of ion-exchange
20 chromatography resins. Such resins and chromatographic techniques are well known to one skilled in the art (see, *e.g.*, Heegaard, 1998, *J Mol. Recognit.* 11:141-148; Hage and Tweed, 1997, *J. Chromatogr. B. Biomed. Sci. Appl.*, 699:499-525). Gel electrophoresis may also be employed to separate complexed molecules from unbound species (see, *e.g.*, Ausubel *et al* (eds.), In: *Current Protocols in Molecular Biology*, J. Wiley & Sons,
25 New York. 1999). In this technique, protein or nucleic acid complexes are separated based on size or charge, for example. In order to maintain the binding interaction during the electrophoretic process, non-denaturing gels in the absence of reducing agent are typically preferred, but conditions appropriate to the particular interactants will be well known to one skilled in the art. Immunoprecipitation is another common technique
30 utilized for the isolation of a protein-protein complex from solution (see, *e.g.*, Ausubel *et al* (eds.), In: *Current Protocols in Molecular Biology*, J. Wiley & Sons, New York. 1999). In this technique, all proteins binding to an antibody specific to one of the

binding molecules are precipitated from solution by conjugating the antibody to a polymer bead that may be readily collected by centrifugation. The bound assay components are released from the beads (through a specific proteolysis event or other technique well known in the art which will not disturb the protein-protein interaction in the complex), and a second immunoprecipitation step is performed, this time utilizing antibodies specific for the correspondingly different interacting assay component. In this manner, only formed complexes should remain attached to the beads. Variations in complex formation in both the presence and the absence of a test compound can be compared, thus offering information about the ability of the compound to modulate interactions between the marker and its binding partner.

Also within the scope of the present invention are methods for direct detection of interactions between the marker and its natural binding partner and/or a test compound in a homogeneous or heterogeneous assay system without further sample manipulation. For example, the technique of fluorescence energy transfer may be utilized (see, *e.g.*, Lakowicz *et al*, U.S. Patent No. 5,631,169; Stavrianopoulos *et al*, U.S. Patent No. 4,868,103). Generally, this technique involves the addition of a fluorophore label on a first 'donor' molecule (*e.g.*, marker or test compound) such that its emitted fluorescent energy will be absorbed by a fluorescent label on a second, 'acceptor' molecule (*e.g.*, marker or test compound), which in turn is able to fluoresce due to the absorbed energy. Alternately, the 'donor' protein molecule may simply utilize the natural fluorescent energy of tryptophan residues. Labels are chosen that emit different wavelengths of light, such that the 'acceptor' molecule label may be differentiated from that of the 'donor'. Since the efficiency of energy transfer between the labels is related to the distance separating the molecules, spatial relationships between the molecules can be assessed. In a situation in which binding occurs between the molecules, the fluorescent emission of the 'acceptor' molecule label in the assay should be maximal. An FET binding event can be conveniently measured through standard fluorometric detection means well known in the art (*e.g.*, using a fluorimeter). A test substance which either enhances or hinders participation of one of the species in the preformed complex will result in the generation of a signal variant to that of background. In this way, test substances that modulate interactions between a marker and its binding partner can be identified in controlled assays.

In another embodiment, modulators of marker expression are identified in a method wherein a cell is contacted with a candidate compound and the expression of mRNA or protein, corresponding to a marker in the cell, is determined. The level of expression of mRNA or protein in the presence of the candidate compound is compared
5 to the level of expression of mRNA or protein in the absence of the candidate compound. The candidate compound can then be identified as a modulator of marker expression based on this comparison. For example, when expression of marker mRNA or protein is greater (statistically significantly greater) in the presence of the candidate compound than in its absence, the candidate compound is identified as a stimulator of
10 marker mRNA or protein expression. Conversely, when expression of marker mRNA or protein is less (statistically significantly less) in the presence of the candidate compound than in its absence, the candidate compound is identified as an inhibitor of marker mRNA or protein expression. The level of marker mRNA or protein expression in the cells can be determined by methods described herein for detecting marker mRNA
15 or protein.

In another aspect, the invention pertains to a combination of two or more of the assays described herein. For example, a modulating agent can be identified using a cell-based or a cell free assay, and the ability of the agent to modulate the activity of a marker protein can be further confirmed *in vivo*, *e.g.*, in a whole animal model for
20 cellular transformation and/or tumorigenesis.

This invention further pertains to novel agents identified by the above-described screening assays. Accordingly, it is within the scope of this invention to further use an agent identified as described herein in an appropriate animal model. For example, an agent identified as described herein (*e.g.*, an marker modulating agent, an antisense
25 marker nucleic acid molecule, an marker-specific antibody, or an marker-binding partner) can be used in an animal model to determine the efficacy, toxicity, or side effects of treatment with such an agent. Alternatively, an agent identified as described herein can be used in an animal model to determine the mechanism of action of such an agent. Furthermore, this invention pertains to uses of novel agents identified by the
30 above-described screening assays for treatments as described herein.

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It is understood that appropriate doses of small molecule agents and protein or polypeptide agents depends upon a number of factors within the knowledge of the ordinarily skilled physician, veterinarian, or researcher. The dose(s) of these agents will vary, for example, depending upon the identity, size, and condition of the subject or sample being treated, further depending upon the route by which the composition is to be administered, if applicable, and the effect which the practitioner desires the agent to have upon the nucleic acid or polypeptide of the invention. Exemplary doses of a small molecule include milligram or microgram amounts per kilogram of subject or sample weight (*e.g.* about 1 microgram per kilogram to about 500 milligrams per kilogram, about 100 micrograms per kilogram to about 5 milligrams per kilogram, or about 1 microgram per kilogram to about 50 micrograms per kilogram). Exemplary doses of a protein or polypeptide include gram, milligram or microgram amounts per kilogram of subject or sample weight (*e.g.* about 1 microgram per kilogram to about 5 grams per kilogram, about 100 micrograms per kilogram to about 500 milligrams per kilogram, or about 1 milligram per kilogram to about 50 milligrams per kilogram). It is furthermore understood that appropriate doses of one of these agents depend upon the potency of the agent with respect to the expression or activity to be modulated. Such appropriate doses can be determined using the assays described herein. When one or more of these agents is to be administered to an animal (*e.g.* a human) in order to modulate expression or activity of a polypeptide or nucleic acid of the invention, a physician, veterinarian, or researcher can, for example, prescribe a relatively low dose at first, subsequently increasing the dose until an appropriate response is obtained. In addition, it is understood that the specific dose level for any particular animal subject will depend upon a variety of factors including the activity of the specific agent employed, the age, body weight, general health, gender, and diet of the subject, the time of administration, the route of administration, the rate of excretion, any drug combination, and the degree of expression or activity to be modulated.

A pharmaceutical composition of the invention is formulated to be compatible with its intended route of administration. Examples of routes of administration include parenteral, *e.g.*, intravenous, intradermal, subcutaneous, oral (*e.g.*, inhalation), transdermal (topical), transmucosal, and rectal administration. Solutions or suspensions used for parenteral, intradermal, or subcutaneous application can include the following

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components: a sterile diluent such as water for injection, saline solution, fixed oils, polyethylene glycols, glycerine, propylene glycol or other synthetic solvents; antibacterial agents such as benzyl alcohol or methyl parabens; antioxidants such as ascorbic acid or sodium bisulfite; chelating agents such as ethylenediamine-tetraacetic acid; buffers such as acetates, citrates or phosphates and agents for the adjustment of tonicity such as sodium chloride or dextrose. pH can be adjusted with acids or bases, such as hydrochloric acid or sodium hydroxide. The parenteral preparation can be enclosed in ampules, disposable syringes or multiple dose vials made of glass or plastic.

Pharmaceutical compositions suitable for injectable use include sterile aqueous solutions (where water soluble) or dispersions and sterile powders for the extemporaneous preparation of sterile injectable solutions or dispersions. For intravenous administration, suitable carriers include physiological saline, bacteriostatic water, Cremophor EL (BASF; Parsippany, NJ) or phosphate buffered saline (PBS). In all cases, the composition must be sterile and should be fluid to the extent that easy syringability exists. It must be stable under the conditions of manufacture and storage and must be preserved against the contaminating action of microorganisms such as bacteria and fungi. The carrier can be a solvent or dispersion medium containing, for example, water, ethanol, polyol (for example, glycerol, propylene glycol, and liquid polyethylene glycol, and the like), and suitable mixtures thereof. The proper fluidity can be maintained, for example, by the use of a coating such as lecithin, by the maintenance of the required particle size in the case of dispersion and by the use of surfactants. Prevention of the action of microorganisms can be achieved by various antibacterial and antifungal agents, for example, parabens, chlorobutanol, phenol, ascorbic acid, thimerosal, and the like. In many cases, it will be preferable to include isotonic agents, for example, sugars, polyalcohols such as mannitol, sorbitol, or sodium chloride in the composition. Prolonged absorption of the injectable compositions can be brought about by including in the composition an agent which delays absorption, for example, aluminum monostearate and gelatin.

Sterile injectable solutions can be prepared by incorporating the active compound (e.g., a polypeptide or antibody) in the required amount in an appropriate solvent with one or a combination of ingredients enumerated above, as required, followed by filtered sterilization. Generally, dispersions are prepared by incorporating the active compound

into a sterile vehicle which contains a basic dispersion medium, and then incorporating the required other ingredients from those enumerated above. In the case of sterile powders for the preparation of sterile injectable solutions, the preferred methods of preparation are vacuum drying and freeze-drying which yields a powder of the active
5 ingredient plus any additional desired ingredient from a previously sterile-filtered solution thereof.

Oral compositions generally include an inert diluent or an edible carrier. They can be enclosed in gelatin capsules or compressed into tablets. For the purpose of oral therapeutic administration, the active compound can be incorporated with excipients and
10 used in the form of tablets, troches, or capsules. Oral compositions can also be prepared using a fluid carrier for use as a mouthwash, wherein the compound in the fluid carrier is applied orally and swished and expectorated or swallowed.

Pharmaceutically compatible binding agents, and/or adjuvant materials can be included as part of the composition. The tablets, pills, capsules, troches, and the like can
15 contain any of the following ingredients, or compounds of a similar nature: a binder such as microcrystalline cellulose, gum tragacanth or gelatin; an excipient such as starch or lactose, a disintegrating agent such as alginic acid, Primogel, or corn starch; a lubricant such as magnesium stearate or Sterotes; a glidant such as colloidal silicon dioxide; a sweetening agent such as sucrose or saccharin; or a flavoring agent such as
20 peppermint, methyl salicylate, or orange flavoring.

For administration by inhalation, the compounds are delivered in the form of an aerosol spray from a pressurized container or dispenser which contains a suitable propellant, e.g., a gas such as carbon dioxide, or a nebulizer.

Systemic administration can also be by transmucosal or transdermal means. For
25 transmucosal or transdermal administration, penetrants appropriate to the barrier to be permeated are used in the formulation. Such penetrants are generally known in the art, and include, for example, for transmucosal administration, detergents, bile salts, and fusidic acid derivatives. Transmucosal administration can be accomplished through the use of nasal sprays or suppositories. For transdermal administration, the active
30 compounds are formulated into ointments, salves, gels, or creams as generally known in the art.

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The compounds can also be prepared in the form of suppositories (*e.g.*, with conventional suppository bases such as cocoa butter and other glycerides) or retention enemas for rectal delivery.

In one embodiment, the active compounds are prepared with carriers that will
5 protect the compound against rapid elimination from the body, such as a controlled release formulation, including implants and microencapsulated delivery systems. Biodegradable, biocompatible polymers can be used, such as ethylene vinyl acetate, polyanhydrides, polyglycolic acid, collagen, polyorthoesters, and polylactic acid. Methods for preparation of such formulations will be apparent to those skilled in the art.
10 The materials can also be obtained commercially from Alza Corporation and Nova Pharmaceuticals, Inc. Liposomal suspensions (including liposomes having monoclonal antibodies incorporated therein or thereon) can also be used as pharmaceutically acceptable carriers. These can be prepared according to methods known to those skilled in the art, for example, as described in U.S. Patent No. 4,522,811.

15 It is especially advantageous to formulate oral or parenteral compositions in dosage unit form for ease of administration and uniformity of dosage. Dosage unit form as used herein refers to physically discrete units suited as unitary dosages for the subject to be treated; each unit containing a predetermined quantity of active compound calculated to produce the desired therapeutic effect in association with the required
20 pharmaceutical carrier. The specification for the dosage unit forms of the invention are dictated by and directly dependent on the unique characteristics of the active compound and the particular therapeutic effect to be achieved, and the limitations inherent in the art of compounding such an active compound for the treatment of individuals.

For antibodies, the preferred dosage is 0.1 mg/kg to 100 mg/kg of body weight
25 (generally 10 mg/kg to 20 mg/kg). If the antibody is to act in the brain, a dosage of 50 mg/kg to 100 mg/kg is usually appropriate. Generally, partially human antibodies and fully human antibodies have a longer half-life within the human body than other antibodies. Accordingly, lower dosages and less frequent administration is often possible. Modifications such as lipidation can be used to stabilize antibodies and to
30 enhance uptake and tissue penetration (*e.g.*, into the breast epithelium). A method for lipidation of antibodies is described by Cruikshank *et al.* (1997) *J. Acquired Immune Deficiency Syndromes and Human Retrovirology* 14:193.

The nucleic acid molecules corresponding to a marker of the invention can be inserted into vectors and used as gene therapy vectors. Gene therapy vectors can be delivered to a subject by, for example, intravenous injection, local administration (U.S. Patent 5,328,470), or by stereotactic injection (see, *e.g.*, Chen *et al.*, 1994, *Proc. Natl. Acad. Sci. USA* 91:3054-3057). The pharmaceutical preparation of the gene therapy vector can include the gene therapy vector in an acceptable diluent, or can comprise a slow release matrix in which the gene delivery vehicle is imbedded. Alternatively, where the complete gene delivery vector can be produced intact from recombinant cells, *e.g.* retroviral vectors, the pharmaceutical preparation can include one or more cells which produce the gene delivery system.

The pharmaceutical compositions can be included in a container, pack, or dispenser together with instructions for administration.

V. Electronic Apparatus Readable Media and Arrays

Electronic apparatus readable media comprising a breast cancer marker of the present invention is also provided. As used herein, "electronic apparatus readable media" refers to any suitable medium for storing, holding or containing data or information that can be read and accessed directly by an electronic apparatus. Such media can include, but are not limited to: magnetic storage media, such as floppy discs, hard disc storage medium, and magnetic tape; optical storage media such as compact disc; electronic storage media such as RAM, ROM, EPROM, EEPROM and the like; general hard disks and hybrids of these categories such as magnetic/optical storage media. The medium is adapted or configured for having recorded thereon a marker of the present invention.

As used herein, the term "electronic apparatus" is intended to include any suitable computing or processing apparatus or other device configured or adapted for storing data or information. Examples of electronic apparatus suitable for use with the present invention include stand-alone computing apparatus; networks, including a local area network (LAN), a wide area network (WAN) Internet, Intranet, and Extranet; electronic appliances such as a personal digital assistants (PDAs), cellular phone, pager and the like; and local and distributed processing systems.

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As used herein, "recorded" refers to a process for storing or encoding information on the electronic apparatus readable medium. Those skilled in the art can readily adopt any of the presently known methods for recording information on known media to generate manufactures comprising the markers of the present invention.

5 A variety of software programs and formats can be used to store the marker information of the present invention on the electronic apparatus readable medium. For example, the nucleic acid sequence corresponding to the markers can be represented in a word processing text file, formatted in commercially-available software such as WordPerfect and MicroSoft Word, or represented in the form of an ASCII file, stored in
10 a database application, such as DB2, Sybase, Oracle, or the like, as well as in other forms. Any number of dataprocessor structuring formats (*e.g.*, text file or database) may be employed in order to obtain or create a medium having recorded thereon the markers of the present invention.

By providing the markers of the invention in readable form, one can routinely
15 access the marker sequence information for a variety of purposes. For example, one skilled in the art can use the nucleotide or amino acid sequences of the present invention in readable form to compare a target sequence or target structural motif with the sequence information stored within the data storage means. Search means are used to identify fragments or regions of the sequences of the invention which match a particular
20 target sequence or target motif.

The present invention therefore provides a medium for holding instructions for performing a method for determining whether a subject has breast cancer or a pre-disposition to breast cancer, wherein the method comprises the steps of determining the presence or absence of a breast cancer marker and based on the presence or absence of
25 the breast cancer marker, determining whether the subject has breast cancer or a pre-disposition to breast cancer and/or recommending a particular treatment for the breast cancer or pre- breast cancer condition.

The present invention further provides in an electronic system and/or in a network, a method for determining whether a subject has breast cancer or a pre-
30 disposition to breast cancer associated with a breast cancer marker wherein the method comprises the steps of determining the presence or absence of the breast cancer marker, and based on the presence or absence of the breast cancer marker, determining whether

the subject has breast cancer or a pre-disposition to breast cancer, and/or recommending a particular treatment for the breast cancer or pre- breast cancer condition. The method may further comprise the step of receiving phenotypic information associated with the subject and/or acquiring from a network phenotypic information associated with the
5 subject.

The present invention also provides in a network, a method for determining whether a subject has breast cancer or a pre-disposition to breast cancer associated with a breast cancer marker, said method comprising the steps of receiving information associated with the breast cancer marker receiving phenotypic information associated
10 with the subject, acquiring information from the network corresponding to the breast cancer marker and/or breast cancer, and based on one or more of the phenotypic information, the breast cancer marker, and the acquired information, determining whether the subject has breast cancer or a pre-disposition to breast cancer. The method may further comprise the step of recommending a particular treatment for the breast
15 cancer or pre- breast cancer condition.

The present invention also provides a business method for determining whether a subject has breast cancer or a pre-disposition to breast cancer, said method comprising the steps of receiving information associated with the breast cancer marker, receiving phenotypic information associated with the subject, acquiring information from the
20 network corresponding to the breast cancer marker and/or breast cancer, and based on one or more of the phenotypic information, the breast cancer marker, and the acquired information, determining whether the subject has breast cancer or a pre-disposition to breast cancer. The method may further comprise the step of recommending a particular treatment for the breast cancer or pre- breast cancer condition.

The invention also includes an array comprising a breast cancer marker of the present invention. The array can be used to assay expression of one or more genes in the array. In one embodiment, the array can be used to assay gene expression in a tissue to ascertain tissue specificity of genes in the array. In this manner, up to about 7600 genes can be simultaneously assayed for expression. This allows a profile to be
25 developed showing a battery of genes specifically expressed in one or more tissues.
30

In addition to such qualitative determination, the invention allows the quantitation of gene expression. Thus, not only tissue specificity, but also the level of expression of a battery of genes in the tissue is ascertainable. Thus, genes can be grouped on the basis of their tissue expression *per se* and level of expression in that tissue. This is useful, for example, in ascertaining the relationship of gene expression between or among tissues. Thus, one tissue can be perturbed and the effect on gene expression in a second tissue can be determined. In this context, the effect of one cell type on another cell type in response to a biological stimulus can be determined. Such a determination is useful, for example, to know the effect of cell-cell interaction at the level of gene expression. If an agent is administered therapeutically to treat one cell type but has an undesirable effect on another cell type, the invention provides an assay to determine the molecular basis of the undesirable effect and thus provides the opportunity to co-administer a counteracting agent or otherwise treat the undesired effect. Similarly, even within a single cell type, undesirable biological effects can be determined at the molecular level. Thus, the effects of an agent on expression of other than the target gene can be ascertained and counteracted.

In another embodiment, the array can be used to monitor the time course of expression of one or more genes in the array. This can occur in various biological contexts, as disclosed herein, for example development of breast cancer, progression of breast cancer, and processes, such a cellular transformation associated with breast cancer.

The array is also useful for ascertaining the effect of the expression of a gene on the expression of other genes in the same cell or in different cells. This provides, for example, for a selection of alternate molecular targets for therapeutic intervention if the ultimate or downstream target cannot be regulated.

The array is also useful for ascertaining differential expression patterns of one or more genes in normal and abnormal cells. This provides a battery of genes that could serve as a molecular target for diagnosis or therapeutic intervention.

30 VI. Predictive Medicine

The present invention pertains to the field of predictive medicine in which diagnostic assays, prognostic assays, pharmacogenomics, and monitoring clinical trials

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are used for prognostic (predictive) purposes to thereby treat an individual prophylactically. Accordingly, one aspect of the present invention relates to diagnostic assays for determining the level of expression of polypeptides or nucleic acids corresponding to one or more markers of the invention, in order to determine whether
5 an individual is at risk of developing breast cancer. Such assays can be used for prognostic or predictive purposes to thereby prophylactically treat an individual prior to the onset of the cancer.

Yet another aspect of the invention pertains to monitoring the influence of agents (e.g., drugs or other compounds administered either to inhibit breast cancer or to treat or
10 prevent any other disorder {i.e. in order to understand any breast carcinogenic effects that such treatment may have}) on the expression or activity of a marker of the invention in clinical trials. These and other agents are described in further detail in the following sections.

15 A. Diagnostic Assays

An exemplary method for detecting the presence or absence of a polypeptide or nucleic acid corresponding to a marker of the invention in a biological sample involves obtaining a biological sample (e.g. a breast-associated body fluid) from a test subject and contacting the biological sample with a compound or an agent capable of detecting
20 the polypeptide or nucleic acid (e.g., mRNA, genomic DNA, or cDNA). The detection methods of the invention can thus be used to detect mRNA, protein, cDNA, or genomic DNA, for example, in a biological sample *in vitro* as well as *in vivo*. For example, *in vitro* techniques for detection of mRNA include Northern hybridizations and *in situ* hybridizations. *In vitro* techniques for detection of a polypeptide corresponding to a
25 marker of the invention include enzyme linked immunosorbent assays (ELISAs), Western blots, immunoprecipitations and immunofluorescence. *In vitro* techniques for detection of genomic DNA include Southern hybridizations. Furthermore, *in vivo* techniques for detection of a polypeptide corresponding to a marker of the invention include introducing into a subject a labeled antibody directed against the polypeptide.
30 For example, the antibody can be labeled with a radioactive marker whose presence and location in a subject can be detected by standard imaging techniques.

A general principle of such diagnostic and prognostic assays involves preparing a sample or reaction mixture that may contain a marker, and a probe, under appropriate conditions and for a time sufficient to allow the marker and probe to interact and bind, thus forming a complex that can be removed and/or detected in the reaction mixture.

5 These assays can be conducted in a variety of ways.

For example, one method to conduct such an assay would involve anchoring the marker or probe onto a solid phase support, also referred to as a substrate, and detecting target marker/probe complexes anchored on the solid phase at the end of the reaction. In one embodiment of such a method, a sample from a subject, which is to be assayed
10 for presence and/or concentration of marker, can be anchored onto a carrier or solid phase support. In another embodiment, the reverse situation is possible, in which the probe can be anchored to a solid phase and a sample from a subject can be allowed to react as an unanchored component of the assay.

There are many established methods for anchoring assay components to a solid
15 phase. These include, without limitation, marker or probe molecules which are immobilized through conjugation of biotin and streptavidin. Such biotinylated assay components can be prepared from biotin-NHS (N-hydroxy-succinimide) using techniques known in the art (*e.g.*, biotinylation kit, Pierce Chemicals, Rockford, IL), and immobilized in the wells of streptavidin-coated 96 well plates (Pierce Chemical). In
20 certain embodiments, the surfaces with immobilized assay components can be prepared in advance and stored.

Other suitable carriers or solid phase supports for such assays include any material capable of binding the class of molecule to which the marker or probe belongs. Well-known supports or carriers include, but are not limited to, glass, polystyrene,
25 nylon, polypropylene, nylon, polyethylene, dextran, amylases, natural and modified celluloses, polyacrylamides, gabbros, and magnetite.

In order to conduct assays with the above mentioned approaches, the non-immobilized component is added to the solid phase upon which the second component is anchored. After the reaction is complete, uncomplexed components may be removed
30 (*e.g.*, by washing) under conditions such that any complexes formed will remain immobilized upon the solid phase. The detection of marker/probe complexes anchored to the solid phase can be accomplished in a number of methods outlined herein.

In a preferred embodiment, the probe, when it is the unanchored assay component, can be labeled for the purpose of detection and readout of the assay, either directly or indirectly, with detectable labels discussed herein and which are well-known to one skilled in the art.

5 It is also possible to directly detect marker/probe complex formation without further manipulation or labeling of either component (marker or probe), for example by utilizing the technique of fluorescence energy transfer (see, for example, Lakowicz *et al.*, U.S. Patent No. 5,631,169; Stavrianopoulos, *et al.*, U.S. Patent No. 4,868,103). A fluorophore label on the first, 'donor' molecule is selected such that, upon excitation
10 with incident light of appropriate wavelength, its emitted fluorescent energy will be absorbed by a fluorescent label on a second 'acceptor' molecule, which in turn is able to fluoresce due to the absorbed energy. Alternately, the 'donor' protein molecule may simply utilize the natural fluorescent energy of tryptophan residues. Labels are chosen that emit different wavelengths of light, such that the 'acceptor' molecule label may be
15 differentiated from that of the 'donor'. Since the efficiency of energy transfer between the labels is related to the distance separating the molecules, spatial relationships between the molecules can be assessed. In a situation in which binding occurs between the molecules, the fluorescent emission of the 'acceptor' molecule label in the assay should be maximal. An FET binding event can be conveniently measured through
20 standard fluorometric detection means well known in the art (*e.g.*, using a fluorimeter).

 In another embodiment, determination of the ability of a probe to recognize a marker can be accomplished without labeling either assay component (probe or marker) by utilizing a technology such as real-time Biomolecular Interaction Analysis (BIA) (see, *e.g.*, Sjolander, S. and Urbaniczky, C., 1991, *Anal. Chem.* 63:2338-2345 and
25 Szabo *et al.*, 1995, *Curr. Opin. Struct. Biol.* 5:699-705). As used herein, "BIA" or "surface plasmon resonance" is a technology for studying biospecific interactions in real time, without labeling any of the interactants (*e.g.*, BIAcore). Changes in the mass at the binding surface (indicative of a binding event) result in alterations of the refractive index of light near the surface (the optical phenomenon of surface plasmon resonance (SPR)),
30 resulting in a detectable signal which can be used as an indication of real-time reactions between biological molecules.

Alternatively, in another embodiment, analogous diagnostic and prognostic assays can be conducted with marker and probe as solutes in a liquid phase. In such an assay, the complexed marker and probe are separated from uncomplexed components by any of a number of standard techniques, including but not limited to: differential

5 centrifugation, chromatography, electrophoresis and immunoprecipitation. In differential centrifugation, marker/probe complexes may be separated from uncomplexed assay components through a series of centrifugal steps, due to the different sedimentation equilibria of complexes based on their different sizes and densities (see, for example, Rivas, G., and Minton, A.P., 1993, *Trends Biochem Sci.* 18(8):284-7).

10 Standard chromatographic techniques may also be utilized to separate complexed molecules from uncomplexed ones. For example, gel filtration chromatography separates molecules based on size, and through the utilization of an appropriate gel filtration resin in a column format, for example, the relatively larger complex may be separated from the relatively smaller uncomplexed components. Similarly, the

15 relatively different charge properties of the marker/probe complex as compared to the uncomplexed components may be exploited to differentiate the complex from uncomplexed components, for example through the utilization of ion-exchange chromatography resins. Such resins and chromatographic techniques are well known to one skilled in the art (see, *e.g.*, Heegaard, N.H., 1998, *J. Mol. Recognit.* Winter 11(1-6):141-8; Hage, D.S., and Tweed, S.A. *J Chromatogr B Biomed Sci Appl* 1997 Oct

20 10;699(1-2):499-525). Gel electrophoresis may also be employed to separate complexed assay components from unbound components (see, *e.g.*, Ausubel *et al.*, ed., *Current Protocols in Molecular Biology*, John Wiley & Sons, New York, 1987-1999). In this technique, protein or nucleic acid complexes are separated based on size or

25 charge, for example. In order to maintain the binding interaction during the electrophoretic process, non-denaturing gel matrix materials and conditions in the absence of reducing agent are typically preferred. Appropriate conditions to the particular assay and components thereof will be well known to one skilled in the art.

In a particular embodiment, the level of mRNA corresponding to the marker can

30 be determined both by *in situ* and by *in vitro* formats in a biological sample using methods known in the art. The term "biological sample" is intended to include tissues, cells, biological fluids and isolates thereof, isolated from a subject, as well as tissues,

cells and fluids present within a subject. Many expression detection methods use isolated RNA. For *in vitro* methods, any RNA isolation technique that does not select against the isolation of mRNA can be utilized for the purification of RNA from breast cells (see, *e.g.*, Ausubel *et al.*, ed., *Current Protocols in Molecular Biology*, John Wiley & Sons, New York 1987-1999). Additionally, large numbers of tissue samples can readily be processed using techniques well known to those of skill in the art, such as, for example, the single-step RNA isolation process of Chomczynski (1989, U.S. Patent No. 4,843,155).

The isolated mRNA can be used in hybridization or amplification assays that include, but are not limited to, Southern or Northern analyses, polymerase chain reaction analyses and probe arrays. One preferred diagnostic method for the detection of mRNA levels involves contacting the isolated mRNA with a nucleic acid molecule (probe) that can hybridize to the mRNA encoded by the gene being detected. The nucleic acid probe can be, for example, a full-length cDNA, or a portion thereof, such as an oligonucleotide of at least 7, 15, 30, 50, 100, 250 or 500 nucleotides in length and sufficient to specifically hybridize under stringent conditions to a mRNA or genomic DNA encoding a marker of the present invention. Other suitable probes for use in the diagnostic assays of the invention are described herein. Hybridization of an mRNA with the probe indicates that the marker in question is being expressed.

In one format, the mRNA is immobilized on a solid surface and contacted with a probe, for example by running the isolated mRNA on an agarose gel and transferring the mRNA from the gel to a membrane, such as nitrocellulose. In an alternative format, the probe(s) are immobilized on a solid surface and the mRNA is contacted with the probe(s), for example, in an Affymetrix gene chip array. A skilled artisan can readily adapt known mRNA detection methods for use in detecting the level of mRNA encoded by the markers of the present invention.

An alternative method for determining the level of mRNA corresponding to a marker of the present invention in a sample involves the process of nucleic acid amplification, *e.g.*, by rtPCR (the experimental embodiment set forth in Mullis, 1987, U.S. Patent No. 4,683,202), ligase chain reaction (Barany, 1991, *Proc. Natl. Acad. Sci. USA*, 88:189-193), self sustained sequence replication (Guatelli *et al.*, 1990, *Proc. Natl. Acad. Sci. USA* 87:1874-1878), transcriptional amplification system (Kwoh *et al.*, 1989,

Proc. Natl. Acad. Sci. USA 86:1173-1177), Q-Beta Replicase (Lizardi *et al.*, 1988, *Bio/Technology* 6:1197), rolling circle replication (Lizardi *et al.*, U.S. Patent No. 5,854,033) or any other nucleic acid amplification method, followed by the detection of the amplified molecules using techniques well known to those of skill in the art. These
5 detection schemes are especially useful for the detection of nucleic acid molecules if such molecules are present in very low numbers. As used herein, amplification primers are defined as being a pair of nucleic acid molecules that can anneal to 5' or 3' regions of a gene (plus and minus strands, respectively, or vice-versa) and contain a short region in between. In general, amplification primers are from about 10 to 30 nucleotides in length
10 and flank a region from about 50 to 200 nucleotides in length. Under appropriate conditions and with appropriate reagents, such primers permit the amplification of a nucleic acid molecule comprising the nucleotide sequence flanked by the primers.

For *in situ* methods, mRNA does not need to be isolated from the breast cells prior to detection. In such methods, a cell or tissue sample is prepared/processed using
15 known histological methods. The sample is then immobilized on a support, typically a glass slide, and then contacted with a probe that can hybridize to mRNA that encodes the marker.

As an alternative to making determinations based on the absolute expression level of the marker, determinations may be based on the normalized expression level of the
20 marker. Expression levels are normalized by correcting the absolute expression level of a marker by comparing its expression to the expression of a gene that is not a marker, *e.g.*, a housekeeping gene that is constitutively expressed. Suitable genes for normalization include housekeeping genes such as the actin gene, or epithelial cell-specific genes. This normalization allows the comparison of the expression level in one
25 sample, *e.g.*, a patient sample, to another sample, *e.g.*, a non-breast cancer sample, or between samples from different sources.

Alternatively, the expression level can be provided as a relative expression level. To determine a relative expression level of a marker, the level of expression of the marker is determined for 10 or more samples of normal versus cancer cell isolates,
30 preferably 50 or more samples, prior to the determination of the expression level for the sample in question. The mean expression level of each of the genes assayed in the larger number of samples is determined and this is used as a baseline expression level

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for the marker. The expression level of the marker determined for the test sample (absolute level of expression) is then divided by the mean expression value obtained for that marker. This provides a relative expression level.

Preferably, the samples used in the baseline determination will be from breast
5 cancer or from non-breast cancer cells of breast tissue. The choice of the cell source is dependent on the use of the relative expression level. Using expression found in normal tissues as a mean expression score aids in validating whether the marker assayed is breast specific (versus normal cells). In addition, as more data is accumulated, the mean expression value can be revised, providing improved relative expression values based on
10 accumulated data. Expression data from breast cells provides a means for grading the severity of the breast cancer state.

In another embodiment of the present invention, a polypeptide corresponding to a marker is detected. A preferred agent for detecting a polypeptide of the invention is an antibody capable of binding to a polypeptide corresponding to a marker of the invention,
15 preferably an antibody with a detectable label. Antibodies can be polyclonal, or more preferably, monoclonal. An intact antibody, or a fragment thereof (*e.g.*, Fab or F(ab')₂) can be used. The term "labeled", with regard to the probe or antibody, is intended to encompass direct labeling of the probe or antibody by coupling (*i.e.*, physically linking) a detectable substance to the probe or antibody, as well as indirect labeling of the probe
20 or antibody by reactivity with another reagent that is directly labeled. Examples of indirect labeling include detection of a primary antibody using a fluorescently labeled secondary antibody and end-labeling of a DNA probe with biotin such that it can be detected with fluorescently labeled streptavidin.

Proteins from breast cells can be isolated using techniques that are well known to
25 those of skill in the art. The protein isolation methods employed can, for example, be such as those described in Harlow and Lane (Harlow and Lane, 1988, *Antibodies: A Laboratory Manual*, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, New York).

A variety of formats can be employed to determine whether a sample contains a
30 protein that binds to a given antibody. Examples of such formats include, but are not limited to, enzyme immunoassay (EIA), radioimmunoassay (RIA), Western blot analysis and enzyme linked immunoabsorbant assay (ELISA). A skilled artisan can

readily adapt known protein/antibody detection methods for use in determining whether breast cells express a marker of the present invention.

In one format, antibodies, or antibody fragments, can be used in methods such as Western blots or immunofluorescence techniques to detect the expressed proteins. In such uses, it is generally preferable to immobilize either the antibody or proteins on a solid support. Suitable solid phase supports or carriers include any support capable of binding an antigen or an antibody. Well-known supports or carriers include glass, polystyrene, polypropylene, polyethylene, dextran, nylon, amylases, natural and modified celluloses, polyacrylamides, gabbros, and magnetite.

One skilled in the art will know many other suitable carriers for binding antibody or antigen, and will be able to adapt such support for use with the present invention. For example, protein isolated from breast cells can be run on a polyacrylamide gel electrophoresis and immobilized onto a solid phase support such as nitrocellulose. The support can then be washed with suitable buffers followed by treatment with the detectably labeled antibody. The solid phase support can then be washed with the buffer a second time to remove unbound antibody. The amount of bound label on the solid support can then be detected by conventional means.

The invention also encompasses kits for detecting the presence of a polypeptide or nucleic acid corresponding to a marker of the invention in a biological sample (*e.g.* an breast-associated body fluid). Such kits can be used to determine if a subject is suffering from or is at increased risk of developing breast cancer. For example, the kit can comprise a labeled compound or agent capable of detecting a polypeptide or an mRNA encoding a polypeptide corresponding to a marker of the invention in a biological sample and means for determining the amount of the polypeptide or mRNA in the sample (*e.g.*, an antibody which binds the polypeptide or an oligonucleotide probe which binds to DNA or mRNA encoding the polypeptide). Kits can also include instructions for interpreting the results obtained using the kit.

For antibody-based kits, the kit can comprise, for example: (1) a first antibody (*e.g.*, attached to a solid support) which binds to a polypeptide corresponding to a marker of the invention; and, optionally, (2) a second, different antibody which binds to either the polypeptide or the first antibody and is conjugated to a detectable label.

For oligonucleotide-based kits, the kit can comprise, for example: (1) an oligonucleotide, *e.g.*, a detectably labeled oligonucleotide, which hybridizes to a nucleic acid sequence encoding a polypeptide corresponding to a marker of the invention or (2) a pair of primers useful for amplifying a nucleic acid molecule corresponding to a marker of the invention. The kit can also comprise, *e.g.*, a buffering agent, a preservative, or a protein stabilizing agent. The kit can further comprise components necessary for detecting the detectable label (*e.g.*, an enzyme or a substrate). The kit can also contain a control sample or a series of control samples which can be assayed and compared to the test sample. Each component of the kit can be enclosed within an individual container and all of the various containers can be within a single package, along with instructions for interpreting the results of the assays performed using the kit.

B. Pharmacogenomics

Agents or modulators which have a stimulatory or inhibitory effect on expression of a marker of the invention can be administered to individuals to treat (prophylactically or therapeutically) breast cancer in the patient. In conjunction with such treatment, the pharmacogenomics (*i.e.*, the study of the relationship between an individual's genotype and that individual's response to a foreign compound or drug) of the individual may be considered. Differences in metabolism of therapeutics can lead to severe toxicity or therapeutic failure by altering the relation between dose and blood concentration of the pharmacologically active drug. Thus, the pharmacogenomics of the individual permits the selection of effective agents (*e.g.*, drugs) for prophylactic or therapeutic treatments based on a consideration of the individual's genotype. Such pharmacogenomics can further be used to determine appropriate dosages and therapeutic regimens. Accordingly, the level of expression of a marker of the invention in an individual can be determined to thereby select appropriate agent(s) for therapeutic or prophylactic treatment of the individual.

Pharmacogenomics deals with clinically significant variations in the response to drugs due to altered drug disposition and abnormal action in affected persons. See, *e.g.*, Linder (1997) *Clin. Chem.* 43(2):254-266. In general, two types of pharmacogenetic conditions can be differentiated. Genetic conditions transmitted as a single factor altering the way drugs act on the body are referred to as "altered drug action." Genetic

conditions transmitted as single factors altering the way the body acts on drugs are referred to as "altered drug metabolism". These pharmacogenetic conditions can occur either as rare defects or as polymorphisms. For example, glucose-6-phosphate dehydrogenase (G6PD) deficiency is a common inherited enzymopathy in which the
5 main clinical complication is hemolysis after ingestion of oxidant drugs (anti-malarials, sulfonamides, analgesics, nitrofurans) and consumption of fava beans.

As an illustrative embodiment, the activity of drug metabolizing enzymes is a major determinant of both the intensity and duration of drug action. The discovery of genetic polymorphisms of drug metabolizing enzymes (*e.g.*, N-acetyltransferase 2 (NAT
10 2) and cytochrome P450 enzymes CYP2D6 and CYP2C19) has provided an explanation as to why some patients do not obtain the expected drug effects or show exaggerated drug response and serious toxicity after taking the standard and safe dose of a drug. These polymorphisms are expressed in two phenotypes in the population, the extensive metabolizer (EM) and poor metabolizer (PM). The prevalence of PM is different among
15 different populations. For example, the gene coding for CYP2D6 is highly polymorphic and several mutations have been identified in PM, which all lead to the absence of functional CYP2D6. Poor metabolizers of CYP2D6 and CYP2C19 quite frequently experience exaggerated drug response and side effects when they receive standard doses. If a metabolite is the active therapeutic moiety, a PM will show no therapeutic
20 response, as demonstrated for the analgesic effect of codeine mediated by its CYP2D6-formed metabolite morphine. The other extreme are the so called ultra-rapid metabolizers who do not respond to standard doses. Recently, the molecular basis of ultra-rapid metabolism has been identified to be due to CYP2D6 gene amplification.

Thus, the level of expression of a marker of the invention in an individual can be
25 determined to thereby select appropriate agent(s) for therapeutic or prophylactic treatment of the individual. In addition, pharmacogenetic studies can be used to apply genotyping of polymorphic alleles encoding drug-metabolizing enzymes to the identification of an individual's drug responsiveness phenotype. This knowledge, when applied to dosing or drug selection, can avoid adverse reactions or therapeutic failure
30 and thus enhance therapeutic or prophylactic efficiency when treating a subject with a modulator of expression of a marker of the invention.

This invention also provides a process for preparing a database comprising at least one of the markers set forth in Tables 1-6. For example, the polynucleotide sequences are stored in a digital storage medium such that a data processing system for standardized representation of the genes that identify a breast cancer cell is compiled.

- 5 The data processing system is useful to analyze gene expression between two cells by first selecting a cell suspected of being of a neoplastic phenotype or genotype and then isolating polynucleotides from the cell. The isolated polynucleotides are sequenced. The sequences from the sample are compared with the sequence(s) present in the database using homology search techniques. Greater than 90%, more preferably greater than 95% and more preferably, greater than or equal to 97% sequence identity between
10 the test sequence and the polynucleotides of the present invention is a positive indication that the polynucleotide has been isolated from a breast cancer cell as defined above.

- In an alternative embodiment, the polynucleotides of this invention are sequenced and the information regarding sequence and in some embodiments, relative expression,
15 is stored in any functionally relevant program, e.g., in Compare Report using the SAGE software (available through Dr. Ken Kinzler at John Hopkins University). The Compare Report provides a tabulation of the polynucleotide sequences and their abundance for the samples normalized to a defined number of polynucleotides per library (say 25,000). This is then imported into MS-ACCESS either directly or via copying the data into an
20 Excel spreadsheet first and then from there into MS-ACCESS for additional manipulations. Other programs such as SYBASE or Oracle that permit the comparison of polynucleotide numbers could be used as alternatives to MS-ACCESS. Enhancements to the software can be designed to incorporate these additional functions. These functions consist in standard Boolean, algebraic, and text search operations,
25 applied in various combinations to reduce a large input set of polynucleotides to a manageable subset of a polynucleotide of specifically defined interest.

- One skilled in the art may create groups containing one or more project(s) by combining the counts of specific polynucleotides within a group (e.g., $\text{GroupNormal} = \text{Normal1} + \text{Normal2}$, $\text{GroupTumor1} + \text{TumorCellLine}$). Additional characteristic values
30 are also calculated for each tag in the group (e.g., average count, minimum count, maximum count). One skilled in the art may calculate individual tag count ratios between groups, for example the ratio of the average GroupNormal count to the average

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GroupTumor count for each polynucleotide. A statistical measure of the significance of observed differences in tag counts between groups may be calculated.

C. Monitoring Clinical Trials

5 Monitoring the influence of agents (*e.g.*, drug compounds) on the level of expression of a marker of the invention can be applied not only in basic drug screening, but also in clinical trials. For example, the effectiveness of an agent to affect marker expression can be monitored in clinical trials of subjects receiving treatment for breast cancer. In a preferred embodiment, the present invention provides a method for

10 monitoring the effectiveness of treatment of a subject with an agent (*e.g.*, an agonist, antagonist, peptidomimetic, protein, peptide, nucleic acid, small molecule, or other drug candidate) comprising the steps of (i) obtaining a pre-administration sample from a subject prior to administration of the agent; (ii) detecting the level of expression of one or more selected markers of the invention in the pre-administration sample; (iii)

15 obtaining one or more post-administration samples from the subject; (iv) detecting the level of expression of the marker(s) in the post-administration samples; (v) comparing the level of expression of the marker(s) in the pre-administration sample with the level of expression of the marker(s) in the post-administration sample or samples; and (vi) altering the administration of the agent to the subject accordingly. For example,

20 increased administration of the agent can be desirable to increase expression of the marker(s) to higher levels than detected, *i.e.*, to increase the effectiveness of the agent. Alternatively, decreased administration of the agent can be desirable to decrease expression of the marker(s) to lower levels than detected, *i.e.*, to decrease the effectiveness of the agent.

25

D. Surrogate Markers

The markers of the invention may serve as surrogate markers for one or more disorders or disease states or for conditions leading up to disease states, and in particular, breast cancer. As used herein, a "surrogate marker" is an objective

30 biochemical marker which correlates with the absence or presence of a disease or disorder, or with the progression of a disease or disorder (*e.g.*, with the presence or absence of a tumor). The presence or quantity of such markers is independent of the

disease. Therefore, these markers may serve to indicate whether a particular course of treatment is effective in lessening a disease state or disorder. Surrogate markers are of particular use when the presence or extent of a disease state or disorder is difficult to assess through standard methodologies (*e.g.*, early stage tumors), or when an assessment
5 of disease progression is desired before a potentially dangerous clinical endpoint is reached (*e.g.*, an assessment of cardiovascular disease may be made using cholesterol levels as a surrogate marker, and an analysis of HIV infection may be made using HIV RNA levels as a surrogate marker, well in advance of the undesirable clinical outcomes of myocardial infarction or fully-developed AIDS). Examples of the use of surrogate
10 markers in the art include: Koomen *et al.* (2000) *J. Mass. Spectrom.* 35: 258-264; and James (1994) *AIDS Treatment News Archive* 209.

The markers of the invention are also useful as pharmacodynamic markers. As used herein, a "pharmacodynamic marker" is an objective biochemical marker which correlates specifically with drug effects. The presence or quantity of a
15 pharmacodynamic marker is not related to the disease state or disorder for which the drug is being administered; therefore, the presence or quantity of the marker is indicative of the presence or activity of the drug in a subject. For example, a pharmacodynamic marker may be indicative of the concentration of the drug in a biological tissue, in that the marker is either expressed or transcribed or not expressed or
20 transcribed in that tissue in relationship to the level of the drug. In this fashion, the distribution or uptake of the drug may be monitored by the pharmacodynamic marker. Similarly, the presence or quantity of the pharmacodynamic marker may be related to the presence or quantity of the metabolic product of a drug, such that the presence or quantity of the marker is indicative of the relative breakdown rate of the drug *in vivo*.
25 Pharmacodynamic markers are of particular use in increasing the sensitivity of detection of drug effects, particularly when the drug is administered in low doses. Since even a small amount of a drug may be sufficient to activate multiple rounds of marker transcription or expression, the amplified marker may be in a quantity which is more readily detectable than the drug itself. Also, the marker may be more easily detected
30 due to the nature of the marker itself; for example, using the methods described herein, antibodies may be employed in an immune-based detection system for a protein marker, or marker-specific radiolabeled probes may be used to detect a mRNA marker.

Furthermore, the use of a pharmacodynamic marker may offer mechanism-based prediction of risk due to drug treatment beyond the range of possible direct observations. Examples of the use of pharmacodynamic markers in the art include: Matsuda *et al.* US 6,033,862; Hattis *et al.* (1991) *Env. Health Perspect.* 90: 229-238; 5 Schentag (1999) *Am. J. Health-Syst. Pharm.* 56 Suppl. 3: S21-S24; and Nicolau (1999) *Am. J. Health-Syst. Pharm.* 56 Suppl. 3: S16-S20.

The markers of the invention are also useful as pharmacogenomic markers. As used herein, a "pharmacogenomic marker" is an objective biochemical marker which correlates with a specific clinical drug response or susceptibility in a subject (see, e.g., 10 McLeod *et al.* (1999) *Eur. J. Cancer* 35(12): 1650-1652). The presence or quantity of the pharmacogenomic marker is related to the predicted response of the subject to a specific drug or class of drugs prior to administration of the drug. By assessing the presence or quantity of one or more pharmacogenomic markers in a subject, a drug therapy which is most appropriate for the subject, or which is predicted to have a greater 15 degree of success, may be selected. For example, based on the presence or quantity of RNA or protein for specific tumor markers in a subject, a drug or course of treatment may be selected that is optimized for the treatment of the specific tumor likely to be present in the subject. Similarly, the presence or absence of a specific sequence mutation in marker DNA may correlate with drug response. The use of 20 pharmacogenomic markers therefore permits the application of the most appropriate treatment for each subject without having to administer the therapy.

VII. Experimental Protocol

25 A. Subtracted Libraries and Transcript Profiling

Subtracted libraries are generated using a PCR based method that allows the isolation of clones expressed at higher levels in one population of mRNA (tester) compared to another population (driver). Both tester and driver mRNA populations are converted into cDNA by reverse transcription, and then PCR amplified using the 30 SMART PCR kit from Clontech. Tester and driver cDNAs are then hybridized using the PCR-Select cDNA subtraction kit from Clontech. This technique results in both subtraction and normalization, which is an equalization of copy number of low-

abundance and high-abundance sequences. After generation of the subtractive libraries, a group of 96 or more clones from each library is tested to confirm differential expression by reverse Southern hybridization.

5 B. Proteomics

Proteins that are secreted by normal and transformed cells in culture are analyzed to identify those proteins that are likely to be secreted by cancerous cells into body fluids. Supernatants are isolated and MWT-CO filters are used to simplify the mixture of proteins. The proteins are then digested with trypsin. The tryptic peptides are loaded
10 onto a microcapillary HPLC column where they are separated, and eluted directly into an ion trap mass spectrometer, through a custom-made electrospray ionization source. Throughout the gradient, sequence data is acquired through fragmentation of the four most intense ions (peptides) that elute off the column, while dynamically excluding those that have already been fragmented. In this way, approximately 2000 scans worth
15 of sequence data are obtained, corresponding to approximately 50 to 200 different proteins in the sample. These data are searched against databases using correlation analysis tools, such as MS-Tag, to identify the proteins in the supernatants.

In addition, protein profiling experiments are undertaken to assess whether the proteins associated with the expression of individual markers of the invention are
20 secreted. Transcriptional profiling experiments are performed on fractions of RNA that are obtained from either (a) endoplasmic reticulum-associated (ER-associated) ribosomes, or (b) free ribosomes. Eukaryotic RNA which is isolated from ER-associated ribosomes tends to encode secreted and membrane bound proteins rather than intracellular proteins. Accordingly, markers of the invention which exhibit significantly
25 enhanced expression in fractions of RNA from ER-associated ribosomes (in comparison with RNA from free ribosomes) are predicted to be associated with secreted proteins.

VIII. Summary Of The Data Provided In The Tables

Table 1 shows 4068 novel nucleotide sequences identified through subtracted
30 library experiments. The sequences of Table 1 were reinterpreted and those sequences are set forth in Tables 3 and 5. These sequences were determined to be novel through various BLAST searches of the available databases.

The library source for SEQ ID NOS: 1-675 was breast cancer cell cultures (ascites and pleural fluid cultures) versus normal (*i.e.*, non-cancerous) human epithelial mammary cell lines (HMEC). SEQ ID NOS: 1-470 are preferred and SEQ ID NOS: 1-315 are most preferred.

- 5 The library source for SEQ ID NOS: 676-1644 was cancer tissue samples (clinical invasive lobular carcinomas (ILC)) versus normal breast tissue samples. SEQ ID NOS: 676-890 and 1056-1363 are preferred and SEQ ID NOS: 676-792 and 1056-1254 are most preferred.

- 10 The library source for SEQ ID NOS: 1645-2941 was cancer tissue samples (clinical invasive ductal carcinomas (IDC)) versus normal breast tissue samples. SEQ ID NOS: 1645-2454 are preferred and SEQ ID NOS: 1645-2124 are most preferred.

The library source for SEQ ID NOS: 2942-4068 was cancer tissue samples (clinical ductal carcinomas in situ (DCIS)) versus normal breast tissue samples. SEQ ID NOS: 2942-3626 are preferred and SEQ ID NOS: 2942-3351 are most preferred.

- 15 Table 2 shows 4843 novel nucleotide sequences identified through subtracted library experiments. The sequences of Table 2 were reinterpreted and those sequences are set forth in Tables 4 and 5. These sequences were determined to be novel through various BLAST searches of the available databases.

- 20 The tester source for SEQ ID NOS: 1-64, 1960-1976 and 3038-3080 was aggressive breast tumor cell lines and the driver source was indolent breast tumor cell lines (detects markers upregulated in more aggressive tumors).

The tester source for SEQ ID NOS: 65-72, 1879, 1977-2004 and 3081-3127 was indolent breast tumor cell lines and the driver source was aggressive breast tumor cell lines (detects markers upregulated in more indolent tumors).

- 25 The tester source for SEQ ID NOS: 73-629, 1880-1894, 2005-2296 and 3128-3471 was poor clinical outcome breast tumors and the driver source was good clinical outcome breast tumors (detects markers upregulated in more aggressive tumors). "Poor clinical outcome" is defined as the patient suffering disease recurrence following surgery within a period of less than five years. "Good clinical outcome" is defined as
30 the patient remaining disease free for at least five years or more following surgery.

The tester source for SEQ ID NOS: 630-862, 1895-1900, 2297-2385 and 3472-3602 was good clinical outcome breast tumors and the driver source was poor clinical outcome breast tumors (detects markers upregulated in more indolent tumors).

5 The tester source for SEQ ID NOS: 863-1262, 1901-1910, 2386-2567 and 3602-3988 was breast tumor lymph node metastasis and the driver source was indolent (colloid and tubular) breast tumor samples (detects markers upregulated in more aggressive tumors).

10 The tester source for SEQ ID NOS: 1263-1392, 1911-1916, 2568-2735 and 3989-4319 was indolent (colloid and tubular) breast tumor samples and the driver source was breast tumor lymph node metastasis (detects markers upregulated in more indolent tumors).

15 The tester source for SEQ ID NOS: 1393-1638, 1917-1943, 2736-2940 and 4320-4604 was T1N1 breast tumors (tumors 2.0 cm or less in greatest dimension with regional lymph node metastasis) and the driver source was T1N0 breast tumors (tumors 2.0 cm or less in greatest dimension with no regional lymph node metastasis), good clinical outcome (detects markers upregulated in more aggressive tumors).

The tester source for SEQ ID NOS: 1639-1878, 1944-1959, 2941-3037 and 4605-4843 was T1N0 breast tumors with good clinical outcome and the driver source was T1N1 breast tumors (detects markers upregulated in more indolent tumors).

20 Table 6 shows novel nucleotide sequences shown to be associated with breast cancer.

The contents of all references, patents, published patent applications, and database records cited throughout this application are hereby incorporated by reference.

25 Other Embodiments

Those skilled in the art will recognize, or be able to ascertain using no more than routine experimentation, many equivalents to the specific embodiments of the invention described herein. Such equivalents are intended to be encompassed by the following claims.

What is claimed is:

Claims

- 5
1. An isolated nucleic acid molecule selected from the group consisting of:
- a) a nucleic acid molecule comprising a nucleotide sequence which is at least 90% homologous to a nucleotide sequence of Tables 1-6, or a complement thereof;
- 10 b) a nucleic acid molecule comprising a fragment of a nucleic acid comprising a nucleotide sequence of Tables 1-6, or a complement thereof; and
- c) a nucleic acid molecule comprising a nucleotide sequence of Tables 1-6, or a complement thereof.
- 15 2. A vector which contains a nucleic acid molecule of claim 1.
3. A host cell which contains a nucleic acid molecule of claim 1.
4. An isolated polypeptide which is encoded by a nucleic acid molecule comprising a nucleotide sequence which is at least 90% homologous to a nucleic acid comprising a nucleotide sequence of Tables 1-6.
- 20 5. An antibody which selectively binds to a polypeptide of claim 4.
- 25 6. A method for producing a polypeptide comprising culturing the host cell of claim 3 under conditions in which the nucleic acid molecule is expressed.

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7. A method for detecting the presence of a polypeptide of claim 4 in a sample comprising:
- a) contacting the sample with a compound which selectively binds to the polypeptide; and
- 5 b) determining whether the compound binds to the polypeptide in the sample to thereby detect the presence of a polypeptide of claim 4 in the sample.
8. A kit comprising a compound which selectively binds to the polypeptide of claim 4.
- 10 9. A method for detecting the presence of a nucleic acid molecule of claim 1 in a sample comprising:
- a) contacting the sample with a nucleic acid probe or primer which selectively hybridizes to the nucleic acid molecule; and
- 15 b) determining whether the nucleic acid probe or primer binds to a nucleic acid molecule in the sample to thereby detect the presence of a nucleic acid molecule of claim 1 in the sample.
10. The method of claim 9, wherein the sample comprises mRNA molecules and is contacted with a nucleic acid probe.
- 20 11. The method of claim 9, wherein the sample is isolated from breast tissue.
12. The method of claim 9, wherein the sample is a tumor sample.
- 25 13. A kit comprising a compound which selectively hybridizes to a nucleic acid molecule of claim 1.

- 99 -

14. A method of assessing whether a patient is afflicted with breast cancer, the method comprising comparing:

a) the level of expression of a marker in a patient sample, wherein the marker is selected from the group consisting of the markers listed in Tables 1-6, and

5 b) the normal level of expression of the marker in a control non-breast cancer sample,

wherein a significant difference between the level of expression of the marker in the patient sample and the normal level is an indication that the patient is afflicted with breast cancer.

10

15. The method of claim 14, wherein the marker corresponds to a secreted protein.

16. The method of claim 14, wherein the marker corresponds to a transcribed
15 polynucleotide or portion thereof, wherein the polynucleotide comprises the marker.

17. The method of claim 14, wherein the sample comprises cells obtained from the patient.

20 18. The method of claim 17, wherein the sample is a breast tissue.

19. The method of claim 17, wherein the cells are in a fluid selected from the group consisting of blood fluid, lymph, ascitic fluid, cystic fluid, urine, a breast exudate and a nipple aspirate.

25

20. The method of claim 14, wherein the level of expression of the marker in the sample is assessed by detecting the presence in the sample of a protein corresponding to the marker.

30 21. The method of claim 15, wherein the presence of the protein is detected using a reagent which specifically binds with the protein.

22. The method of claim 21, wherein the reagent is selected from the group consisting of an antibody, an antibody derivative, and an antibody fragment.
23. The method of claim 14, wherein the level of expression of the marker in
5 the sample is assessed by detecting the presence in the sample of a transcribed polynucleotide or portion thereof, wherein the transcribed polynucleotide comprises the marker.
24. The method of claim 23, wherein the transcribed polynucleotide is an
10 mRNA.
25. The method of claim 23, wherein the transcribed polynucleotide is a cDNA.
- 15 26. The method of claim 23, wherein the step of detecting further comprises amplifying the transcribed polynucleotide.
27. The method of claim 14, wherein the level of expression of the marker in the sample is assessed by detecting the presence in the sample of a transcribed
20 polynucleotide which anneals with the marker or anneals with a portion of a polynucleotide wherein the polynucleotide comprises the marker, under stringent hybridization conditions.
28. The method of claim 14, wherein the level of expression of the marker in
25 the sample differs from the normal level of expression of the marker in a patient not afflicted with breast cancer by a factor of at least about 2.
29. The method of claim 14, wherein the level of expression of the marker in the sample differs from the normal level of expression of the marker in a patient not
30 afflicted with breast cancer by a factor of at least about 5.

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30. The method of claim 14, comprising comparing:
a) the level of expression in the sample of each of a plurality of markers independently selected from the markers listed in Tables 1-6, and
b) the normal level of expression of each of the plurality of markers in
5 samples of the same type obtained from control humans not afflicted with breast cancer, wherein the level of expression of more than one of the markers is significantly altered, relative to the corresponding normal levels of expression of the markers, is an indication that the patient is afflicted with breast cancer.
- 10 31. The method of claim 30, wherein the level of expression of each of the markers is significantly altered, relative to the corresponding normal levels of expression of the markers, is an indication that the patient is afflicted with breast cancer.
32. The method of claim 30, wherein the plurality comprises at least three of
15 the markers.
33. The method of claim 30, wherein the plurality comprises at least five of the markers.
- 20 34. A method for monitoring the progression of breast cancer in a patient, the method comprising:
a) detecting in a patient sample at a first point in time, the expression of a marker, wherein the marker is selected from the group consisting of the markers listed in Tables 1-6;
25 b) repeating step a) at a subsequent point in time; and
c) comparing the level of expression detected in steps a) and b), and therefrom monitoring the progression of breast cancer in the patient.
35. The method of claim 34, wherein the marker corresponds to a secreted
30 protein.

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36. The method of claim 34, wherein marker corresponds to a transcribed polynucleotide or portion thereof, wherein the polynucleotide comprises the marker.

37. The method of claim 34, wherein the sample comprises cells obtained
5 from the patient.

38. The method of claim 34, wherein the patient sample is a breast tissue.

39. The method of claim 34, wherein between the first point in time and the
10 subsequent point in time, the patient has undergone surgery to remove a tumor.

40. A method of assessing the efficacy of a test compound for inhibiting breast cancer in a patient, the method comprising comparing:

a) expression of a marker in a first sample obtained from the patient and
15 exposed to the test compound, wherein the marker is selected from the group consisting of the markers listed in Tables 1-6, and

b) expression of the marker in a second sample obtained from the patient, wherein the sample is not exposed to the test compound,

wherein a significantly lower level of expression of the marker in the first
20 sample, relative to the second sample, is an indication that the test compound is efficacious for inhibiting breast cancer in the patient.

41. The method of claim 40, wherein the first and second samples are portions of a single sample obtained from the patient.

25

42. The method of claim 40, wherein the first and second samples are portions of pooled samples obtained from the patient.

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43. A method of assessing the efficacy of a therapy for inhibiting breast cancer in a patient, the method comprising comparing:

- a) expression of a marker in the first sample obtained from the patient prior to providing at least a portion of the therapy to the patient, wherein the marker is
5 selected from the group consisting of the markers listed in Tables 1-6, and
- b) expression of the marker in a second sample obtained from the patient following provision of the portion of the therapy,
wherein a significantly lower level of expression of the marker in the
second sample, relative to the first sample, is an indication that the therapy is efficacious
10 for inhibiting breast cancer in the patient.

44. A method of selecting a composition for inhibiting breast cancer in a patient, the method comprising:

- a) obtaining a sample comprising cancer cells from the patient;
- 15 b) separately exposing aliquots of the sample in the presence of a plurality of test compositions;
- c) comparing expression of a marker in each of the aliquots, wherein the marker is selected from the group consisting of the markers listed in Tables 1-6; and
- d) selecting one of the test compositions which induces a lower level of
20 expression of the marker in the aliquot containing that test composition, relative to other test compositions.

45. A method of inhibiting breast cancer in a patient, the method comprising:

- a) obtaining a sample comprising cancer cells from the patient;
- 25 b) separately maintaining aliquots of the sample in the presence of a plurality of test compositions;
- c) comparing expression of a marker in each of the aliquots, wherein the marker is selected from the group consisting of the markers listed in Tables 1-6; and
- d) administering to the patient at least one of the test compositions which
30 induces a lower level of expression of the marker in the aliquot containing that test composition, relative to other test compositions.

46. A kit for assessing whether a patient is afflicted with breast cancer, the kit comprising reagents for assessing expression of a marker selected from the group consisting of the markers listed in Tables 1-6.
- 5 47. A kit for assessing the presence of breast cancer cells, the kit comprising a nucleic acid probe wherein the probe specifically binds with a transcribed polynucleotide corresponding to a marker selected from the group consisting of the markers listed in Tables 1-6.
- 10 48. A kit for assessing the suitability of each of a plurality of compounds for inhibiting breast cancer in a patient, the kit comprising:
- a) the plurality of compounds; and
 - b) a reagent for assessing expression of a marker selected from the group consisting of the markers listed in Tables 1-6.
- 15 49. A method of making an isolated hybridoma which produces an antibody useful for assessing whether a patient is afflicted with breast cancer, the method comprising:
- isolating a protein or protein fragment corresponding to a marker selected
 - 20 from the group consisting of the markers listed in Tables 1-6;
 - immunizing a mammal using the isolated protein or protein fragment;
 - isolating splenocytes from the immunized mammal;
 - fusing the isolated splenocytes with an immortalized cell line to form hybridomas; and
 - 25 screening individual hybridomas for production of an antibody which specifically binds with the protein or protein fragment to isolate the hybridoma.
50. An antibody produced by a hybridoma made by the method of claim 49.

51. A kit for assessing the presence of human breast cancer cells, the kit comprising an antibody, wherein the antibody specifically binds with a protein corresponding to a marker selected from the group consisting of the markers listed in Tables 1-6.

5

52. A method of assessing the breast cell carcinogenic potential of a test compound, the method comprising:

a) maintaining separate aliquots of breast cells in the presence and absence of the test compound; and

10 b) comparing expression of a marker in each of the aliquots, wherein the marker is selected from the group consisting of the markers listed in Tables 1-6, wherein a significantly enhanced level of expression of the marker in the aliquot maintained in the presence of the test compound, relative to the aliquot maintained in the absence of the test compound, is an indication that the test compound
15 possesses human breast cell carcinogenic potential.

53. A kit for assessing the breast cell carcinogenic potential of a test compound, the kit comprising breast cells and a reagent for assessing expression of a marker, wherein the marker is selected from the group consisting of the markers listed in
20 Tables 1-6.

54. A method of treating a patient afflicted with breast cancer, the method comprising providing to cells of the patient an antisense oligonucleotide complementary to a polynucleotide corresponding to a marker selected from the markers listed in Tables
25 1-6.

55. A method of inhibiting breast cancer in a patient at risk for developing breast cancer, the method comprising inhibiting expression of a gene corresponding to a marker selected from the markers listed in Tables 1-6.

30

Table 1

Sequence 1

CCGCGGTGGCGGCCGCCGGGCAGGTACACTATCCCTCATGATGACTCCTTAAGTGGNTC
ATCGTCTGCATCTTCGTGTGAACCAAGTGAATTTCCAGCATCTTTCCGAAAATCTAC
CTACTGGATGAAGATGAGAAGAATCAAGCCAGCTGCTACTTCTNATGTCGAAGGGTCAGG
TGGAGTATCANCCAAGGGGAAAAGGAAACCCAGGCAGGAAGAAGATGAAGACTATNGAGA
ATTTCTNAGAANAAGCATAAGCTTTATGGGAGGAAGCAACGGCCTAAAACTCAGCCCAA
TCCCAAATCCCAGGCCCGTCGTATTGGAAGGAACCACCAGTTTATGCAGCAGGCAGTTT
GGAGGAGCAATGGTACCTN

Sequence 2

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTCAAACCTCCAGATCTAA
ATATGTTTACTTTTCATGTGGATTCCGAACATCCCAATGTAGTGCTAAATTCATCCTATG
TTTGTGTGCAATGCAATTTTCTTACCAAAAGGTATGATGCACCTTCTGAGCATAATCTGA
AATATCACCCAGGAGAAGAGAATTTAAGTTGACTATGGTGAAACGTAATAACCAGACAA
TCTTTGAACAAACAATAAATGATCTGACTTTTGATGGTAGTTTTGTTAAAGAGGAGAATG
CAGAGCAAGCAGAATCTACAGAAGTTTCTTCTCGGGAATATCTATCAGTAAAACTCCTA
TCATGAAAATGATGAAAAATAAAGTGGAAAAATAACGGATTGCAGTTCATCATAACTCAG
TTGGGGACGTTCTGAAGAGAAAGAGAATGAAATCAAACCAGACCGTGAAGAAATTGTAG
AAAATCCAAGTTCTTCAGCTTCTGAATCTAATACAAGTACCTGCC

Sequence 3

AGGTACCTGCCCATCCACTGCCTTTTCCATGTATCCTGGAAGTGAAGCATAGACCTCTTCC
CAGGCAGAGCTGACAGCAAGTAAAGGAGATCATAATCAGGGGACCAACAACCTTGTCTA
AAGTGTGAATGTCACCTAAGGAGAAGCTGTGAGATCAGAAGGGTGGGGCAGAGGAGCAGA
CACCATGAGGGAGAGTCCCTTGGGGGTACCTGCC

Sequence 4

CCGGGCAGGTGCTGATNTTNCNCGGTNAAGCCNCNGNNGGACCCATNCCTGCGGNCACC
TTGACCGAANCCTGTGAGANCTCCTGAAATANAGGANCCAGCNNTTCTGNTANACAN
ANACNCTGGNGCCNTTGNNGCTGGNCTGNNTGAANGCNCACNTGAACTNCGGATTCACAG
NAANTNNTNGGNTNATCNACNGTGGANGAAGCCANANNCCANNNTATNAGNNTNNTCAAN
CNNNTTNANGNAGATGTATGTATGGAGAGAACTGAGGCCTCCNNGCCAACAGCCAGCAC
TAACTTGGCAAGCATGTTTGAGAGCCACCTGGNGAAGTGGAGCCTTCAGCCCCANTTTAA
AGCCTTCANATGAGACTGCAAGTTCCTGGGCCACCATTCTGGGACTGCAACTTTCACAAA
GGAGCCTCCTAAANCCAAGAAGNCCCATGCCAGATGGGAATTTCTTGGGGCCCCCAAGAA
AATTTGTGCCCCACTTACATTTTTTGGGGAATTTTATTNNTGCAAGCNCATTAAGATTT
ACCAATTACCACTTCACCTTATTTTCNTTTTTTTTNTGGAATGCCCATACTTAAAAAAA
AAAAAAAAA

Sequence 5

GGAGCTCCCGCGGTGGCGGCCGCCGGGCAGGTACTGAAAAGGATGAAAAAGGTGGTGT
CATGTTTTGGGGAGAATCTTACTTCTCAAATGGAAATGCACTTTTTGCTGAATCCTTTG
CATTTTTTTGGTAGTAAGCAGTTCATTGAGTATCAGGTCTCAAAGGAATGAGTTGGCCC
GGCTAGGGTGGGCCCTNTTGACCTAACTTCAGAGGGGGCCTTGGCTCAGTAGGTGTGAAT
CAGGGAAGCCACATTGTCTCAGGGTGTGTATGAAGCTGGGTGTGGGCGGATTCTCTCC
ACACCTTCACACTGGCCTGCCTCCAATCATACAAATCTCGGAGCGGTGCGGTACCT

Sequence 6

CNAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTTCACTGGAGCACTTGG
AAACAGAGAAGAAATCAAAGGGCAGTCAGGACTCTCCAGCAGGCAGGGACCAGGTCAGAG
TCAGGATGAAGACAAAACACCTGAGCAAGAAGCAATGGAAGAGATGCTTGTGACCCGAG
CTGATGGGGAAGGTTGAGGGCAACGCANAGACCCACTGCCGACTTGCCAAGAAAACGTG
CAGGAAATGAGGGAAGGCTCCATTTCTGAGAAAAGGGATGGAGGAACATAAGCAGCAT
CAAGCTCCAGCTACTGGCTCTTTGAGAATGTAGTCGGGACTTGCCCCAGTCACCTTGCC
CTGAGAACTCA

Sequence 7

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGAAAGGATGAAAAGGTGGTGTG
ATGTTTTGGGGAGAATCTTACTTCTCAAATGGAAATGCACTTTTNGCTGAATCCTTTGC
ATTTTTTTGGTAGTAAGCAGTTCATTGAGTATCAGGTCTCAAAGGAATGAGTTGGCCCC
GCTAGGGTGGGCCCTCTTGACCTAACTTCAGAGGGGGCCTTGGCTCAGTAGGTGTGAATC
AGGGAAGCCACATTGTCTCAGGGTGTGTATGAAGCTGGGTGTGGGCGGATTCTCCA

Table 1

Sequence 8

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATGTATTTGTCACCTAAAGGT
TCTTTCTGTAAACTGCTTCAGATTCTTTACTATTCAATTTTTAATTNTTAATATCTGTA
AAGAACGTTAATATTCTCTTTATAATCAATCTTTCCCAGTTAGCCTTAAAAATGTATTC
CCTACTTTTGCTTCAGGAGATCATTATTTGCAAATGCAAAGATTTTTACTTAGACTTTT
GAAATCACTCTTAGTAACTTTAACATTGTTTTAGGTATGAAATTGAAGGCTGTGAAGTG
ATTTGGGCCATTAAAGATAAAGCTATAGGGAATACTTTTCTTCGATGCAGGAGCAGCTTG
AATCTTTGACTTCAAAGCTCATTGCTGGAAAAATCAAGAGGGCTTAAATTTGCCCTTA
AAAGGAACNGGATTTTCCACCTGGANGGAAGGG

Sequence 9

GATGCAGAGTCGGAAGGGAGCAGACTGCCCTGCTGGTGAGGGAGGTGATTACCCAGGGCG
AGTGTGCAGCCACTCAATGGCAGGGATTCTTTTCTATTTCCAGCCGGGGTGAAGAGAAC
CCCTTTGTCCCTCAGACAAGTGGCCCCAGTTGAGCCCAGCGCTGAAACCGCCAGTCATCC
GCCTCTGCAGGAAGTGGCCGCCCTGACACATAGCCCAGGGCTGGATTCTTGTGGAAGAGT
CAGTGGAGTGAGATGGTGATTGAAAAAGGAAGAAGGCCCTCCTCAGATCCAGGGCTTTA
ACCCAGCGCACTCCCCGATGTCTCACCCTTTGAGCTCCATGACTGCATTCCCACTTCAA
GGTGCAGGCACGGACGCTAACGGCCCCANTGACTTGGCCAAGGCCACCCAGTAATGCAGCA
GCTGAATTGGGGGCATTTAC

Sequence 10

CCGCGGTGGCGGCCGAGGTACATTTTTGAAAAGCACAATAACTTGATTAAATTGCACTTA
ACACAATGAACCTTTAGTTTCCAACCAAGTTTTCATTCTCTGCAGACCCGGGCTTTCTTTT
TATAAAAAGTCTTTCAAAGGCATAGAGACACCACACATGGTCCACAGTAAATTCAAAT
AGAGAGGTGCAATAGTTGCAGTGGTAAACACAAAAAATACATTTTTTTGGACTAAAA
ATCTGGTCACGGATAAAAGCATGTGCCTTTTTCACTTCTCTCGGATGTTACAACAGCAA
CACGCTCTAAAACAATTAAGTTACATGCATAATGCTAAAAGAAATGTGAGCAATCCTNTAA
CCAGCTTTTAAGCCCATCTGCTTGATTTCTTTTTTTT

Sequence 11

CCGGGCAAGGTACACACCAGGGATTGGGGGCCCTGCAGCTTCTACGCCCAGGGACATTTG
TTCCGGGGACTGGAGTCCTTGCTGTGGCGTGAGGCTGTGTCTGGCGTCTGGGAGGAGGAC
TGTGTGGGGTCTGGGTTCCTCCAGCCCTAATGACCCAGCTGGTTGAAGGCAGCAGATGAAA
GGAGACAAATGACCACGCAAACCCTGGGTGGCCTCATGAACAGGTGGCGGACAAGGGTGA
TCCCTGTTGAGCAAGGTCTCTGCACTGCGGTGGGTCCAAGGACTAAGCTGCCAGC

Sequence 12

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCGAGGTACAAAAGTTGGGA
TCAAATGGAATCTTGATTCACTAACCAATTTAAGATCTGACTTCTAATTTTAGGAACTTT
GGGTATGAACGCTTCCATTTTATACCTGTGTCTAGTTAGTTTCTGCCTATCTATCCAAG
AAGCTTTTATCAAGGGTCCACCATGTGCCAGCCACTGAAGTAGATATAAATACAAGGATG
TGTAAGGTATGGATGATGGTATACGAAGTGCATCTTACTGGATTGTCCGCTCTGTAA
AGATACGGTTCGAAAAGCTTTTTAAAGCCCTAGAGAGGGCTTTAAG

Sequence 13

TTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCGAGGTACAAAAGTTGGGATC
AAATGGAATCTTGATTCACTAACCAATTTAAGATCTGACTTCTAATTTTAGGAACTTTGG
GTTATGAACGCTTCCATTTTATACCTGTGTCTAGTTAGTTTCTGCCTATCTATCCAAG
GCTTTTATCAAGGGTCCACCATGTGCCAGCCACTGAAGTAGATATAAATACAAGGATGTG
TAAGGTATGGATGATGGTATACGAAGTGCATCTTACTGGATTGTCCGCTCTGTAAAG
ATACCGGTTCCGAAAAGCTTTTTAAAGCCCTAGAGAGGGCTTTAAG

Sequence 14

TNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATCATATGCCTGCTG
AAGTGCTCTGACTTTAGGATGAGAACTCTAACATAGGCCGGAAGACAAATAAACCATAA
ACTGTAACAATGACTAAACAGACACTTGGCCCACTGTGGTGGATTGTATAACATCTCTT
CGCCAATTTATGAGCTGTTTTATTTCTGTTTAGTTCTCTTAGCCATGAGAGGTGGACT
CTTTGACCTGCCCCG

Sequence 15

CGGCCGCCGGGCGNNGTACCAAAGGNTNAANACCCANAGGGNAAACCCACCGCGGGNNG
AGCAACAAAGNAGGCACACANGGGGAAAGACCCCANANACGGGGGAAANGCGGGAAAGC
CCCCGAGGAAGCACACACCCNACANACAACACCAAAAAANACACACGGGCGAGAAGNCGAN

Table 1

GCCCAGAAANAGNGAGGGGAAAAAGANGCAGACGGAGCCCAACCCCCANGGAACAAAAAGA
GGACCCANACCGGGGAAAAGACCNAACCAGNNCAAAGAGGGGGGAAAAGGGNCAGGCAGC
CNAGCAAACANAACCGCGNGCAGAGAAAGCACACCCNGGAGACAAGCCCNACNAANGGNGA
AGAAAGGGGGAAAANGCCGCCAAGGAGAAAGCCAGGGCNGAAACNCAGAGAAAAACCAC
ACCAGGGGGNNAAGACCNANGCNANACAACGAAAAACAAAGGGAAAGGGNNCGACCCAAA
NGGGCCGGCCCGGGNAAACCANCAAGGGAAGGCCACCCCNAGGGNGAAAACCNAAAAAAG
NGGAGGGAAAGGGGGGAAACCC

Sequence 16

AGGTGNGAATCAACGCAGGTCAAATGAAATTTACTGAAGGCTTCCAAACCAAAGGGA
AGGACAGGATGTGTCATCAAATATGTTTNGTCACCTTGATTATACAAAANGCTATTTTC
TAANGAGTCAGAGAAANTNTGTGAANCTTATTGTGCGGCCCCCTTGTAATNAAATGTAA
CTCCCTTGATTTAATTTTCAACACTACATTAAGAATTAAGTGTTTNGTTGNGGACA
TAAGCANCACCTTATAATATCAAGGTGTTTAAAGACTCAGGAG

Sequence 17

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTTNTGCTTCCAGTTTATATTTTCA
TCCTGTTTCACTTATTAATATGCCATGGGTCAAAAACCTCAGTGAATAAAATGTGTAT
GAAAGAAACACCCCTCAGAAAAGATGAGACTCTTTCAAGTGTAATACTCTAACTAATA
TAAGTCAAAATATATTTTTGTGCCAGNGATTTTTAAAAATTACCCAGTCAACCATTTT
CTCAATAATTCAAATACTCAAGTGTCATTTATTTTTTGAATAAGCGAGAGTGATCGT
AGTACCTGCCCCG

Sequence 18

CNATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGATTGTGTGCAAAATCACGAG
GGGGGTGCAAGATCCTGATTTTTNAGGAGTTCAAGCGACAATGGCAGNCCAATACGGCAG
TATGAGCTTNAACCCACGACACCCAGGGGCCAGTTATGGGCTGGAAGGCAAGAGCCCAG
AAATCCCAATTGAGAATTGTGTTAGTGGGTAAAACCGGAGCAGGAAAAAGTGAACAGG
AAACAGCATCCTTGCCCGGAAAGTGTTTCATTCTGGCACTGCAGCAAAATCCATTACCAA
GAAGTGTGAGAAACGCAGCAGNTNATGGAAGGAAACAGAATTGT

Sequence 19

CCGCGGTGGCGGCCGAGGTACCTCACGCGCATAAATTTGCTGCTCCTATTTTTTTTTCTG
TTTATGTGTTTTATGGATCTAAGTTAAATCTTTTGGCAATATATAAAATGTAAATAGT
AACTTTATTTATTAAGAATGTCATCTTTTTTAATTTATTTTACACAATTGTTTCATCTA
ATTTATTTTTCTATACAGTTTTAAATACTCAGACATATTTTGTGTTTATGATATTTTT
ATCCTGTTCTCATGGATTTGTTTTCCCACTACTGTTTTCTCTGATCTCAATTACAGGTTGG
ATCTCACAATAATAATGTCAGAGACAGAAATATTTTGGCACTGTTGATTACTATACTTT
AAAGTTCTATATTATGAAAATATATAATAGCTTGACCTGCCCCG

Sequence 20

CTACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACGTCTTTCC
GTGTGTGATGCTGGTGAACAGTCAGATTTATTTATATTTTTTTTGAAGCATTGAATAAT
CTAAGTTTTAAATATTATTTATCCCCATCCGTTCTGATTTATATTAAGAATTCTGTACC
T

Sequence 21

CGACTNCTATAGGCGGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAGA
ATAAGGTTACAGCTGAATTGGCTTGTTGTCCTAATTCCTATTCCAGTATTCTCAGAAG
GATCCCATCTATGATATATGCAGAAATCACAGCCACATTTGAATGGTTCAATCTTGATTC
ATACTGAACTCCCITAAAGCCAGCAGTTTCTCATTCTTAAAGGTAGGTTATTAGAGCCC
CAAAGCAATTTTATAACAAATCTACCTTTGTATATTTAAGAATATGCATTAAGGCTAGG
AGTGGTGGCTCAGCCAGTAATCCTAGCACTTTGGGAGGCCGAGGTGGGCAGATCACAAG
GTCAGATTGAGACCATNCTGGCCAACACGGTGAAACCCCATCTCTACTAAAAATACAAAA
ATTTGCCCGGGGCGGTGGCTCACGCCTATAATCCAGCACTTTTGGGAGG

Sequence 22

CCGCGGTGGCGGCCGAGGTACTCTATGTCCCTCCAGTTGCAACAATGTTGTTTCCAGCC
TGGTTTCAAGCAGCTTGCTGGTGGTTTACTAGGCAGACATGAGCCAGAAACAAATCAGCAA
CCCTGGAGTGGTCATTTAGGATCAGTTTTGTCTCCTTTTACAAAGCAATGAGTGCTTTAT
AAAAGCATTTCTCCTCAGGAACTGGCTCCTCAAAAGTCGTTCTCCAAGCCAGCAGCTCA
CAGTAGATGGATGAGTTTACCTGTCTTAATAACTTTTTATTATAATACTTTTATTACT
GATACTTTATTATAATACTTTTATTACTGATACTGATACCTAGTAATACTTTTATTAGAT

Table 1

GAAATGTATCCCCAGGCCTCCACATCAGCCTTCTGGGGCCCTGACAGGTGTTTACCAGTA
GCTNCACAACCTTCACAGGCTTGTTCTCTCATCCCTGTGAGGGAAGGTTCAAAAGGCAAC
T

Sequence 23

CCGCGGTGGCGGCCGCCGCGGCAGGTA CTGCTCAAATTAAGTTTTTTTAAAGGTCTGT
AATTTGAAAGGAAAAACAATTTTCACTAAAAATATCCTTATTACATGAAAGCCATAATTT
AAAAGACAGAGAAAAAAGCTTTTTAATTAACAAATAAACAGCATCTCTCAGAGACACTTG
GGAATGTTTGTGTTTAAATCAGTGGGTCTTAAAAATCACTGCTTCCACCTGCAAACGAACA
CGAATCCACTGTGGATGGCGTCTCTGACCCACCCTGAAGGGTTCTGTTTCTCTCCACAC
ACTTCCTTTTCTGCAACTTTCAGCAAAGCAGGTTTGGAAGAAAGAGGATTACAAAGAACT
ACGACTGGCTCCCTAGTGAATAACTTAACACGGTAAACCCGGTTTTCCATTACATT

Sequence 24

CCGCGGTGGCGGCCGAGGTACCTACTATGTGTACGCCATGGGGGATACAAAGATCTATA
AGGCACAAGACCCTCAGTCTTGATGTCGCTGACAGCCAGCCAGCTACAACATAATGTGG
AAAGGACAATGGTGGAAAATGCACTCAGGTCTTCCCTAATGCACAGAGTATGCTCAGGCTG
TGACATCAGGAAGAAAACAGATATTTACCTTAACACGGACTTGGAGGACCTTCAAAAAAC
AGTGATGGGAGGAAATCCAGTTTTTAAAGTCTTGATTTAAAAAAAAGAAAAACACTTTCTG
TGGATAAAGATAGGCTGCAGGAAATGTACCTATGAAATTTTCTCAAATTAGCTTTCAA
CACACACAAAAAATTGCATTTGGTTGAGGAGCAGAAATGTAACCTATATTAAGAATAAAC
TACTATTTAGTATCTGAGTGAAGTACCTGCCCC

Sequence 25

CGAATTGTTGCTCCCCGCGGTGGCGGCCGCCGCGGCAGGTACAATAAAGTTCACCCACCC
TGCACTTTNGCCCTTAGATCAATCCTAAGTAGCCATTGCCAGTAGGCCAAGTTTAAATCAG
AGGACAGTGCCTACCAGTAAATACTGAATAGTTACAATAGTTATGTCCATCCAACCAGTA
GCAGATGAACAGCTAATACATCATGATGCTATGCTCTCTTAACAGGGTCCCCCTCAGATCC
TCAGTGAGCACATAAAGAAAGGGAGGTCATATCCCTTACATCTCTACCAGGTATTAACAC
CTAACTACTCTCTAGCCAGAGGCAATCCCTTTATTTCTTACTCTCGTCGTCCTTCTCTT
TAGCCCAATCTCCTGACAATAGTTAAACAAAAAGACCCCCAAAATATCTCTTGCTAAAA
CAG

Sequence 26

ACGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGCGGCAGGTACAAG
CTAAGAAATGTAAAGTATCAACCCTCCAGTTGCTTAATTATACCCATAGGTAATACAA
AAAGCTCTGAAGACCCAAAGATGACATTACTAATGATGTGATTTCAAGAGCCACAGAAGA
ACCTTACCAGCTTCCCTCAAATCAGTCCTTATCCTCTTTCTATCTTCACTCCCATCATCA
TCTATTTTCACTATCCAGCTAAGCAAAGATTCTTGGAGGCTGACTTGATCTTCAGAC
TCACAGAGTGAATTCAGCTNNTTGAATCAAGACCCACCCAGTN

Sequence 27

ACGCTACTATAGGGCGAATTGNNGCTCCCCGCGGTGGCGGCCGCCGCGGCAGGTTTTTTT
TTTTTTTTTTTTTTTGGAGAAACAGGGTCTCACTATGTTGCCCAGGCTGGTCTCAAAC
CTTGGCTCAACAATCCTNCTGCCTCGGCCTGCCAAAGTGGTAGGATTATAGTCATGAG
CCACTGCGTCCAGCTAGAAATAGCAATTTTCTAACACATATATTTCAATTGGTTTATGTA
TGAATTTAGAATATCAAAGTGGCATGAACAGGTTCAAGATCCAACAAAAGGGAATCTTGA
TTCTGCTCACCTAATAAAAGCAGAAGTGCCTGGGCNCTAAAA

Sequence 28

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACGAAGAGGTTCTGTGGA
AAAGGAATATGCTTAATAACTTCGAAAAAAATACCCATAAATGGACAAGGGTGTGGGC
CCCTTTCTGGGTGGATTTCAGGGGTAGTCAGATATTCAGGTTAACTGAACCTGATGCA
TCAATCTCCTTCTTGGAGGTGTCTCAGTGTGCCAGACACTGAATCCACCTTAGACATCTA
TTGCCATTCAGCCAGCAACAAACACACATTCACACTCCTCTGTGCAAACCTTTCTTTGCT
CATCTTGGTGAGAAAACACATCCAAGAGTACCTGCCCC

Sequence 29

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGAGAAGGCACTGAAT
AAATTCACAAAGGCCGATTGGTTTCAACCCATTCTTTAGAGACAACAGACACGCAATTCTG
ACGAGGACTCCTGTTACTAAAAGACACAGCCTCTGATACAAGAGAGATATCCCTTTGACT
GAAGCATTACCAGGTTCCCCAGGGCCCCCTCCCACTGGGGCGGTAAACACTACGGGTCTCC
CCACCATATATTCCATGTCAAAGTATCTACACAAATACAGAGGAAATTAAGCAAGTAAAT

Table 1

ACGGTATGTAATTGTTATCATTTGTATTTCTTTAAGGCATATTTATAAATATTTTAAAGT
AAACAATATGAGGTGAGTGCCTTTTCATTAGCTATGATCTTTCATACTGATATATTTTGAC
TGGATCTGAATAAGGCAGGTTTACTGGNGGGAGCATATTAACATAAAACAGCTTATATGA
TTTCAGGTGGGTACCTGCC

Sequence 30

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACAACAGGGAC
ATAATTTCTCTTTTGGCTGTTATACATTTCTTTTAAAAAGCAAGTGATTGGTAGGAATTT
GGCAAAAGTTGAATAAGTTACAAGAACAGGCTTTTATTCATTTGCTATTTGGTTTTATG
TTTCTTGTTTACTTCGTTTGATTTGTTTCTCAAACTCACTCAGTGGGATTACCTGTCTG
TCATGTAGCAGCTTTTAAAAAACTGGACTGTGCAGCGTGTTCTGAGTGCAGTCTTTAT
AAAGCCCAGNGCTGNACCT

Sequence 31

ATACGACTATTTAGGGCNAATTCAGCTCCCCGCGGNGGCGGTNGCCCGGGCAGGTTNCT
NACGCGCATANTTTTGCCGCTCCTATTTTTTTCTGTTTANGTGTTTTATGGATCTAA
GNCAATCTTTTGGCAATATATAAAATGTAAATAGTAACTTTATTTATTAAGAAATGC
ATCTTTTTTAATTTATATTTACACAATTGTTTCATCTAATTTATTTTTCTATACAGTTTT
AAATACTCAGACATATTTTGCTGTTTCATGATATTTTATCCTGTTCTCATGGATTTGTTT
TCCATACTGNTTTCTCTGATCTCAATTACAGGGTGGGATCTCACAAATAATAATGGCAG
AGACAGAAATATT

Sequence 32

CTATANGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACCCATTGCATC
ATGAAGTTTGGGCATATCAACATTTTGACTCATTGCGGAAATCATACGCATTAAAAGTTG
AAGCTTTCTACGATTTGGTGGGGGAAGTAACAAACAACATANCTGTANAGCATCNATGGC
AACCCTCTCTAAATGAGGTTGCAGCAAGCTTTGTGTGCCAGTCAACATAGAAGAAGCTGG
AAGTAAAGAATTTCTGAAAGTTCTATTGTACCTTGCCGCCGCCGGGCAGGTACGGAGGTG
AACTGAAAGAGACTGCTTCCATTGGCCTAGTCCAGATGAGTGTATATATTTCCCATCAGAA
CCCACCACTGGTCATCTTTAAGGCATNCACAAAATGTCCCTCACAAATTCACCTAATCTC
T

Sequence 33

TCGAGGTACCTAAGTCAAAAGGCACTGNTTGGAGATGGCACACTCATTTTCATGCGTGT
AAAATNTTAAATCATCCACTTTGCAGGCAGTGGCTTTGATAACTCACTGCAGTGTTCAAG
GGGTTTATAAACTGGTTATAAGCTTCAAACCCATGTTTAGAAAAATTGACACTCATAGA
AAAAAATGCTTTCTCTGGGCTAATTAAATTAATAAATTAATAAATTAATAAATTAATAA
TGGCTCACAAAGCTATAGAAAAGATCCTTCATATCATCCCTGGCCCTAGCACCGTGAGTA
GATGTTCAACCTGATAAGGCCAGGCGGAGGTGGCCCATGTGAAATTTCTTTGGCTTTGAGC
TAATTG

Sequence 34

CCGGGCAGGTACTAACATGATGATAGGTTTTCAAATATCTTTGTAGTGGATGCTGCATA
ATTACATTCACCTTCTCTTAGACTGTAAAAGACTTTCTTGACTTGTTTTAACAGTAGAGAT
AGCAGTACCT

Sequence 35

TNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCACTGCCCTTTTCA
GACAGTTTTTGATTCGCTCTAGACTTTTTTTTTTTAATAGGGAAAAAATTTGATAATTTT
CTTTTTCTACATGCACTTAAGACTAAAACACAGGTTTGGATTAATTTTATTTGCTTCCT
TTTTCCGCTTTTCTTCCCGCAGAGCCTGATGGGAGAATGTCCAGGGCAGGGAACCAT
TTTTGTAGGTGATAACTCAATGAAATTTGGTGCTTATTTTTTACACTTCTCTTGTGG
CTCTCTTGTGGGGCTATCTATCTGTTTTAAGGTCTCCTGAAGGCGCACTGGGG

Sequence 36

CCGGGCAGGTTTTTTTTTTTTTTTTTTTNTCAGGGNTTGAACACNTTTTAATTATTAG
AAATCCATACATGCATATAATTAACCTCTAAATTTATTTTTAAAAAATAAATTATGGNCA
TGAAAGAACAATAGNGCTTAAANAATTTNAAATTTNCATANACATGTAATTTTTATTCCC
TAAAAATGAAATAAGATGAAACCTTTATGGGTANATTAATGGGATNTTTTA

Sequence 37

AAGGGCGAATGGACTCCACCGCGGTGGCGGCCGAGGTTTTTTTTTTTTTTTTTTCTTTT
TTTGGAGAGAACTCCATTTTATTATGGAAAGNTAAAAAACAACAAANCAAAACAGGCAA
TTGATAAAGGCGGCACAATNGNNAAGGAGAGGTTGAGGTGTCTCCTTAGCCACCCGACAC

Table 1

AGTATTTTCTGATGCCACAAGCTTACTAAGAAAATTACTTCTAAAAATTGGTNATATAAA
TCATCAATGGATTACCTACTTTAAAAAGAGGGGTATCTGGNTTCTCTTACATTTAA
TAACCTGAAAATGGAGGTCTATAAAAAATTTTTTAAAAATACAGNGACNCCTGNTGGA
GGTTTTGGTAGGGCCCTTGGTTTTTNAAN

Sequence 46

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAGCACTAGAAT
AATGCTGTGTCTCCTGTTACACATACTCATGGTCTCTCCTACTCTCCCTTCATCACACC
TGTGACATCTTGCAATTTATATTTGATTGTGTCTATTATCTAATGTATTCTCCTGGACTC
TAAGCTCCAAATGAACAAATGCTTTGTCTACTTTGCCATACTGNGTCCCCAGTGCTTGG
CATGGGACCTGGTGCAGAGTAAATACATCATAAATATTTTGTGAATGAATGAATGAATGA
ATGACCATGATTAATAAAAGGATATAGCTGCTCAGTCTGGTGCTGATAATGGTGGTAGTG
ATCAAAAGGGTTNAACCACAGGTCAATAAATGAAAACAGCTAACTTAGTGCTTACAGGAA
CCATACACTCCCTGTGTATAAACATGCCGGTGTGTGTGTCTCTNGGT

Sequence 47

GCCCCGCGGCCGCCCGGGCAGGTNCAAAAGAACAGCATAAAANCCANAAANTTNGAAGCNA
ACAAGGANNNNGCAANGGGCCGGGAAAAAGTAAANAACAGCGGCCCGCGCACAAACGGNNA
NACAAGACAAGGAANNNAACAACCCAAANCCCCACACGGAGAGAGGCCNAAAAAAGGA
AAAGNCGCCAGNCAAAANGGAAGCCCCGAGGNNAGGAANGAAACCAACANGAGACCACCGC
AAAAGAGAAAACCNANGNGGGCAANGCAAACCCGNGAAAAGANGGGNCCCGNCCAAAAAA
ANAANNNNNCCCTGGCNGNAGGGGANGAAAAANATGGGCATATAGCCAGGCCACNAAG
AAGAAAAAACANCCACCCCAANAAANCNAAGGGAGGCCCAACNGAAGGCCAAAGGGG
GNCCCAAGGGAAAAAAANGGANGAAAGAGCCCCCNNGGGANCCAGGGAANGGGNAAAAA
AGGGGGGAGGAGGGNGGAAAAAACAGGGANACCCNAAAAACCGGCNAAAGGGCCCGNC
ACCCCAAGCNAAGGAACCCNACCGGGAANGGGGGGGNG

Sequence 48

CCGCGGTGGCGGCCGAGGTACAAGAGAACAATTAATAATTGAAAAATTGATTTCACTTAG
AAAACTTCTAGGAACAGGGTGAACCACTGATTTTAATTTGCCTAATTATCTTATGACAA
GTATCAATTAAGATGACACTTAAAGATCCTTAGCATTAACTAATGATGGAGAAGAGTG
CTCAACAGACAGTTCCAGTAAGGTAATGAGATGCCATTTTCAGAGACATTCTAAGAAGA
TATTTTGATTCATTAAACATTAAATAAAAAGCCCTCCTCAGATTGGAACCCCCAAATCG
ATGGAGCCACATTAATAATACTTTTCATGCCTCACTTTGACATGACAGGCATTNGATT
TTTTAAAGATCTTTAATACTTT

Sequence 49

CGCNGGCGGCCGCCCGGGCAGGTNCGAGAAAAGAGCTAGGGTAGGCAACTTAACTTACA
CAGTGCCAGTCTCAGGAGGTCAGTAGCTCACAGAACTCAACAGATAAACTGGATTAAAAAC
TTAAAGTCTTCTTTCTATTTGAGCCCATATGACTATTTTGAACATGGCTCTTTTGCTG
CTGCCTATATATAAATTTTTATTAATTTCTTGATTGGGAAGATCTTGAATACGCTCC
AGGATGAGAAGAAAAAATACGCTGACACTGCTAAATCGGGTATATGTTTTTGCAATAAAG
AACACTGGTCAATATACAACCTGAGGAAAAACTGAAACAGATGTGAGTCCTANAACCACAA
GAGTTTGAATTTGCCAGAAATGCTATTTTAAACACTCTATATGTTGGCTGCTGTTTTT
GGGGAATAATGCATTCTTGGCATCCTTAAAGGTTTCAATATGTTACAAAGGTTATCCCC
GAAAGAGAAAAAGC

Sequence 50

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCTCTGTCTTCTGGACAG
TCAGTCTATGAGCTCTTCTTTGAAACAGTCTTAGACCCAGAAATGGTCATCTCACCCCCAG
AAGACATGGTTTCCAAGGGTGGGAGGTGTTAGTTATGGGTGCCGAGCCCCACTTCCTGGG
CGACAAGGCAAAGGTCAATTTCTCCCTGCTTCAAGAAATGAAGAGGGAAGTGGTGCTCCTT
GAACCAAAGATTCTTGGAAGGGTCATTGTACCAAAGTGCTGGTGTGGGCAGGAGCACC
AAGTGCAGACAAACCCACCGGGGCTGGCGGGGCAGCCCTGTCTGTTCTGTCTTTGT
TCCTGTTAGTGAAACAGAAGACCCCCGACCCCCGCCACCTAGCAGCATGGAACACCTGCT
GCCCAGATACAGACAAGGCTCTGCTTTGTCTCCTTGTGCTGGTTTTTGGCAGAAACGTTA
AAGGGGCTGAAGGCCTGTGGGACAGAA

Sequence 51

GCTCCCCGCGGTGGCGGCCGAGGTACTCATNATAGTTACATCCCTATATAAAAAAGTATGT
TTACATTTAAAAAATTAGTAGATAACTTCTTTCTTTCAAGTGACAAATTTCAATTTTGAC
TTGAGTCAACTTTTGTGTTTGAACAAATTAAGTAAGGGAGCTGCCCAATCCTGTCTGATA

Table 1

TTTCTTGAGGCTGCCCTCTATCATTTTTATCTTTCCCATGGGCAGAGATGTTGTAAGTGGG
 ATTCTTAATATCACCATTCTTGGGACTGGTATACATAAGGCAGCCGTGAAACTGGAAAGT
 CATTTTGATGACTGATGTGATACATCCAGAGGTAAATGCATTTAAACATATTAAGGAT
 TTGCCAAAGATCAATTTTCTTGCTGACATAAAAAATCACACAAACCAAGTCCCCCCCCAAACC
 ACAACTGNCTCTCAAATAGCTTAAAAAAATTGAAAAACATTTTAAGGATTTTTCAAGGTT
 TCTAGATTTTNAAGGATGGTCAGCTTTTAGAGGGNATGGTNAAAAAATTTT

Sequence 52

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAGGAATTTACTTGAC
 CATTCCCCTTATTTTTCATCTAGAGGAATCTCGGATTCAGCCCTTTTCATTGCTAAGACAC
 CTTTTCACTGAGGTTCTTACCAGCTCAGCCAAATCTCCACTCTGCTATAGCAGAAGCAAT
 AATGTTTGCTTTAAAAAGATTTCTTGACCNATGCCTTTTNTTANAAAGGGGGGTAGATTA
 TTTTGAACCTTCTATCATCANANCAGNCCCCNAAANGGGGGGGTGGGGGGGGGATTTTT
 TTTNTGGGGNNGNNNTTTTTTTNNCCNCCCCCCCCCNNTTTTTTAAGGTTTTTGNNG
 GGGGGGGGNAAAGGGGNATTTTTTTTTTTTTTTNNNCNCCNNGNAAAAAGNNNNNNAN
 TTTNTTTTTTTNTTNGGGGGGGGGGGGGGGGGGGGGGG

Sequence 53

AAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCATCCCATGTGGAATCTGTG
 AGTGTCTCTTAAGTAGCGTGGGCTAGCCAATCTGCCGTTTCATGGTGTATTGTAAACTCC
 GAATTCATATGTAATAGGATGCAAGTCTAAGCGTTTCATGTGGACATAAATGTATCTAA
 AAAAACTTTCCCTAGCACTGTGGCTGACCTCACCCTTACTTTTATACTTTAGTATGAAA
 CTGATGAGAACTTTGGTAGTGAGTATTTTTTTTATATATACATATATATGTACCTGCC
 CGGGCGGCCGCTCTAGAAGTAG

Sequence 54

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTCACGCGCATAAATTTGC
 TGCTCCTATTTTTTTCTGTTTATGTGTTTTATGGATCTAAGTTAAATCTTTGGCAAT
 ATATAAAATGTAAATAGTAAACTTTATTTATTAAGAATGTCATCTTTTTTAATTTATAT
 TTACACAATTGTTTCATCTAATTTATTTTTCTATACAGTTTTAAATACTCAGACATATTT
 TGCTGTTTCATGATATTTTTATCCTGTTCTCATGGATTTGTTTTCCCATACTGTTTTCTCT
 GATCTCAATTACAGGTTGGATCTCACAAATAAATGTCAGAGACAGAAATATTTTGCCA
 CTGTTGATTACTATACTTTAAAGTTCTATATTATGAAAATATATAATAGCTTGACCTGC
 CCG

Sequence 55

CCGCGGTGGCGGCCCGCCCGGGCAGGTACAACATATATACATGTGCATATATATGTAAAT
 TTATATTTATATATAATATCTTTATATAGATAGATATCTGCAGACAGGTTATTGATTATA
 GAGACCCAAGAAAGCAACTCAATAATTGTTCAAAGTTTTCTCACTGACTGCTGGTGTGT
 AGTTTAAGAAGCCCCCATTTGTTTGCACTCAGAAATGCCCTATCTCTTTAATGGAACAC
 TTGATGTGGAATTTAAGTCTGAGAAGTGAGGTGCCCTCTGAAGAAGAGATTTAGAGAC
 TCCCTTCCTCTATAAGTTGGAATGACCAAGAAAGTCTTTAAGTAGACGACAGTTAGCTGA
 CTTTGACATTGTAGGGACGTAATCAGCTTTTAACCAAAATATAGAAGTGGTAAGGGTAA
 AGATCAAATTTGCCAAAAAA

Sequence 56

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGAAGAAAAGAGCTAGGGT
 AGGCAACTAAAACCTTACACAGTGCCAGTCTCAGGAAGTCAGTAGCTCACAGAACTCAACA
 GATAAAGTGGATTAAAACCTTAAAGTCTTCTTTCTATTTGAGCCCATATGACTATTTTG
 AACATGGCTCTTTTGCTGCTGCCTATATATAAATTTTTTATTAATTTTCTTGTATTGGGA
 AGATCTTGAATACNCTCCAGGATGAGAAGAAAAATACCCCTGACACTGCTTAATCGGGTA
 TATGTTTTTGCCATAAAAACCCCTGGNNCATATACCACTGGGGGAAAACCTN/3AACCCATNT
 GGGGTCTTTNAACNCCAAAGGTTTTAAATTTCCCCCAAANNCTNTTTTTTNAACCCCT
 TTTTGTGGGGGCGGCNCGTTTTTTTTTGGG

Sequence 57

ACTTAGGGCGAATTGGAGCTCNCGCGGTGGCGGCCGAGGTACCCCTTCTGCCTGAGCA
 TTTTTCTTAAAGGGAAGAATCAATAGTTTCTGACTGTTTTAACAGCTGAAAGCTCCAAC
 TGGAGGCAGAAGATGGGATGGCTTTTACACACAGTGCCTGCAAGTTTAGCCACCTCCAA
 GGCCTTGTCTTAAAGCA

Sequence 58

CCGCGGTGGCGGCCGAGGTACTGGGAAAATTTATAGAAATCATCTAGTCTTACCCTTCAT

Table 1

TATTCACGGAATATGGTGGACTATCACCTCATCATGGACATGATCCCGGCCATCTCTCGC
ATCTATTTCCCTGAACCACTGGGGGACCTGGCCCTGTCTGCGGCTCAGTCGGCTCTTCTC
TTGGGGATTGGCCTGCAGCATAAGTCTGTGGACCAGCTGAAAAAGGAGATTGAGCTGCCC
TCGGGCCAGTTGATGGGGACTTTTCAACCCGGATCATCCGCAAAGTTGTGAAGCTATTTA
ATGAAGTTCAGGAAAAGGCCATTGAGGAGCAGAATGGTGGCAGCGAAGGATTGTTGGTCA
TGGGAGCCACGATGAAAGACCCTCAGTGACGACCTAANATGAAGCAGCAAAG

Sequence 74
GGGCNCTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGCAGGTACAT
AGATCCTGATCTACTGGCAGAGCTCAGCGAAGAACAGAAACAGATCCTGTTCTTCAAGAT
GAGAGAGGAACAGATCCGACGATGAAAGAAAGAGAAGCAGCTATGGAAGAAAGGAGTC
CCTGCCAGTGAAACCCAGACCAAAGAAAGAGAATGGGCAAATCGGTTCAATTGAAACCTG
GAGCTGATAAG

Sequence 75
TTAGGGCGAATTGGAGCTCCCCGCGGNGCGGCCCGCCCGGCCGGTACTTTGNTTCTNTT
GGGNAGCNTAANACAGNAACCTCAAGGAGCTAGAGAACCAGGATGGGAGACATGAGCAGT
AATTAACCTCACTTGTTCCCCAGAGTNTCTATTTGGANNTGATTTTCTTTTCTGNGACTN
ATTTTCCCTATTTTCTTCCCTCATGTAATTTTCACTATGGCCCACTAATAAACACCT
GGAAATTACAAGGAAAAAAATTTCTTCTCTAATAACTNTCCAAATTTGNGGAATATTTA
TTTGTAAANANCAGTTATCAAGGTATGCTTATATAGCAT

Sequence 76
GNGGGCGGCCCGCCCGGCCAGGTNCAGCGTGGTCAAGGTAACAAGAAGAAAAAATGTGAG
TGGCATCCTGGGATGAGCAGGGGGACAGACCTGGACAGACACGTTGTCACTTTGCTGCTGT
GGGTAGGAAAATGGCGTAAAGGAGGAGAAACAGATACAAAATCTCCAACCTCAGTATTAA
GGTATTCTCATGCCTAGAAATTTTGGTANAAACAAGAATACCTTTCTNTGGCAAATACT
AACCNTGGNGGGACCAAAATNTGGGATTTTAAAGTTGGGNTCCANGGAAATTTTTT
TAAAAAGGCCTGTTTTTGGGANAAANAAANAAACCTTTTTNNTTAANNAACNTTTN
AAAAAGNNGATTTTTTGGGGGGGGTTNCCNTTTTTNACCNTTTNTTNAAAAAAAGGNA
GGGGGGTTTTTAAAAAANTTGGGGGGGCCCCCCCCCGGGNGGGGGGGGAANTTNNA
NCNAANTTTTTTNNCCCCCCCC

Sequence 77
GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGCCAGGTACTTTTTTCTCTTTGA
AATCTCATAGGATAGTCACACTTATAAACATTTCCCAATATTCGGATTCTAGAAGAAATGC
AATTCATTAATAATTTTCTGGCACTGAGAGTTAATCTTTAGCAGATTGCATGAAAATACT
GAATTCCTGGTAAGGAGATATTTGTTTTAAAAATAATGTGTTTTGATACGAATCAGTGT
ATTAAGTATAACTAAAAAGTACCT

Sequence 78
CCGGGCAGGTACGTTGAACGTTTATTACAATAATTGGCGATGTGATAAGACAGTGCTCA
CGTGGCCTGAATGTTGGTCACAATCACAACAAAGCTTAATCCAGCCCAGCATATATAAGT
GAAATATAAACCATGAAGACATGTTTAGATATGTATAAGTACCT

Sequence 79
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGCCAGGTGCGTTCTCTTGG
TCTTATTTCCATCCTGGCCAATGCTTAAATACTATTTGTTGAAAATAATTCTTTGAGACA
GATTTCACTACCTCCCTCCAGGTTGATTTAACTTGGTTGTAATTGTCAATTTGTTGT
TATAGGTCTTACCTGTGTGAAAGAAAGAAAAAGAAAGAAAGAAAGAGAAAGGAAAT
TATAAGGTCAAGTTAACAGTTTGTAGGTTTGTGTTTTTCTGGAACCTACTTCAAGTGA
GAAAAAATAAAAAAATGGTGACAAAGCTGTACCT

Sequence 80
NCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTTTTTTTTTTTTTTTGA
AGGAAGGAAAAATATTTTATTAAGTTTTTTAAAGTTTTATGAATNGAAGTCTATGAAAAC
AACTACTTTGATACAAAAACATTCAGATATTAGATGTCAAAATAAATCAGCACATTTGAA
AATACTATAAATTATTTTCAACAAATATATACACATTATGTTAACCTTCAACAGGATC
CATTATCACTACTTAGAACACTGATATGTTTATCTTTAAGTATGTAAAAATTACATAGC
TGTTAACTTTGTATGGCAATTCACCTATAACACATTTAAGAAAGCATTACAAAATTCATT
ATATAATAATTCTCAAAAGTTTTCTCACATT

Sequence 81
GGTACTTTAACTTTTGAAGGTGGTTTCTGGTTCCCCCAATCGGTGAGCCCAAAGACCTCA

Table 1

AATAACATTTTATTACACAGACTTCTTAGAGATGAAAAGTTTCTAGAGAGCAGAGCCTT
TAGGGAACTAGGGGATGATGCATTCAGTGAATAAATCACAGTATTATACTCAAGAGCAAA
TACGTTTTCTTTCTTATTGGTGTATCTTTCTTGTGAAATACGGCAACTGATGAAGAAG
TCTCCTATTGAGAATAACCAGACGAAATCACAAGGCTAGACAAGCAGCTACTAACCCAT
CCCCTTCCCCCTGCCCATGGTAAACCCCTGCTGGCAAATGTATTTCTCCCTCTAAACCTG
GGAGGACTCACGTTTCTGCACCCAGAGCCCCAGGGGGAAGTAAACAATGGGGAGTGAGCC
GATGAGGTGGGAT

Sequence 82

CCGCGGTGGCGGCCCGCCCGGGCAGGTACTGTTCTTATAAAAAGATTCTTTCTCCAGAATT
ATATCTCCTCAGAGCAACAGCAAGGTTCTCAGGATCGAAGCCTACTCTAGCCTGAAGGGC
TAGGAAGATTAGGATAAGGATAAGGATAATAATCCAAAAGTCTCGACAATTCCAGTAGTC
TCTGGATGGCTCCACATCATAGAAATTTAACACTGTTCCACTTGTTTACAAAATCTAAC
ACTGGCTTAGACATTCTGGACTTTCACTGAGGGTTCCAGCATCTGATGTCCCTCAACTCC
TTTCCAGGGTGAGAGGCCCACTTACAGGAACTTAACTTCTCACCATGTGGACCCTGAGG
GGTTTTTCTCTTGCAGAAGGGCTAAAAAGTGAGGAAGCTATGGAATAATGGTGGGTGAC
TTTTAAGGCAGACTGTTTGGGTGTGTGGGAATTTTCTAACCTAAGTTCTACCATCTT
GGGATTATTC

Sequence 83

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACCCTGTGCGTA
GGTGGAGCGGTTGAAGCAAGGTGGGTGTGAAGCCCCGAGAGTGGTGTCTTGGTCGGACTG
GCACACTCCGGGCAGCTGGGAGAGTGACAGGGAGGCTGAGAAGGGGGCCCGCTGGATCCCG
CAGCTGGCGCGCACATAGTGTCTGCTGCCCTGCTTAGGACAGTTCTCTTTCATCCGTGA
GGAGCCAAGACAAGTCACAACTGCAAGTGAGGGGGTTGCCAAAGAGGTTGATCGATAGGA
CCTGGGAGGAATCCAGGGTCCAAGGAGGGAAGGAACCTCAAGTTGCAGTTCTGGAACAGAA
GGACCTATAGATGTGGAGTATCTTGAAGATGTGTGTGGCGACAGAAAGCAAGTGCTGGGG
GAGTCTTGACAGTCCAGCTGTTGCAGGTGGGGGGTCATCTTGAAAAATGTCCCCCTCAGG
GGTCGTCAAGCCGAGGCATNTTCACCTNNGNCCGCTTTAAACTAAGTNGGATCCCCCG

Sequence 84

CCGCGGTGGCGGCCCGCCCGGGCAGGTACCTAACCTACCTTTAAGACTGGGATAACTATTG
GAAACAATAGCTAATACCGGATATAGTTATTTATCGCATGATGAGTAATAGAAAGGAGCT
TCACAGCTTCACTTAAAAATGGGGGTGCGGAACATTAGTTAGTTGGTAGGGTAATGGCCT
ACCAAGACGATGATGTTTAGCCGGGCCGAGAGGCTGTACCT

Sequence 85

CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACTCTTTGA
GGACATTTTTGTCTAGATTAACATAACAGTGATAGTGTAGTTTTTAAATGCAAGTTGAAA
AGTTTAGCTGTCTTGAAGTCAAATTTATCCAATTGTTCACTTCTGTTACTACTTAAT
ATGAAGCCACCATGCTGGCTTGGACAGAATTAATTTTCAATCATGTTATGGAGAATTCAT
ATTACAAATCTGGTCCCTATAATATGAACAGTGAGCAGTCAGAAATATACAAAGGGTTA
AATAGGGTAAAGACTTTGGCCAAGAAAGGAAAGGCCTTAGTTCTACCATAGAGTATCTTC
TCTAATTTAAATGACTGGGAAATATATGGAAGCAGAAACCAGCACAAAGCACTACCCATC
TAGAAATAATTTTTCAGTTAAAAACAACCTCTCAAAACCAGCACTCATTTCTCTAAGATA
GGGTTATAAGTATTTTACGATTTCTTGGTATATTTAAAT

Sequence 86

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACCAGCCAGCTCCCACC
ACTCACGGCCTTCATCCTGCCTTCGGGAGGCAAGATCAGCTCGGCGCTGCATTTCTGCCG
GGCCGTGTGCCGCCGGGGCCGAGAGACGTGTGGTGCCTCTTGTCCAGATGGGAGAGACCGA
TGCGAACGTGGCCAAGTTCTTAAACAGACTCAGTGACTATCTCTTCACGCTAGCCAGATA
TGCAGCCATGAAGGAGGGGAATCAAGAGAAAAATATACAAGAAAAATGACCCAT

Sequence 87

CCGCGGTGGCGGCCGAGGTACAGAAGAGGTTCTGTGAAAAGGAATATGCTTAATAACTTC
GAAAAAATACCCATAAATGGACAAGGGTGTGGGCCCCCTTTCTGGGTGGATTCAGGGG
TAGTCAGATATTCAGGTTAACTGAACCTGATGCATCAATCTCCTTCTTGGAGGTGTCT
CAGTGTGCCAGACACTGAATCCACCTTAGACATCTATTGCCATTAGCCAGCAACAAACA
CACATTCACACTCCTCTGTGCAACCTTTCTTTGCTCATCTTGGTGAGAAAACACATCCA
AGAGTACCTGCCCGGGCGGCCGCTCTAGAAGTAG

Table 1

Sequence 88

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAGAAAAAGGAT
TGGAATTGTGTTTAGTTTTGGTGTGTTAGATTATTTCTTTGTGCTTTCTCTTTTCT
TTTTTTTTCTTTTTACAATAGGCCAGTAGAATTCTTATGAGAAACAAGCTTTTAAGC
ACTTCAATGGAGTGTCATTTTTTGGTAGCTTCCAGAAGGTGCCAAACAGGTTTCAACAT
CATATTAATTAGAAAATACCCATAATAATTATAACAATAATAAAAGGTATAATATGGTAC
CT

Sequence 89

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGTTGCACGTGCAATTA
AGGATCTAGCTGCTGACATTGAAGAAGAGCTTGTGTTAGACTGAAAATTTGCGATGGGT
TTTCACTGCAACTAGATGAATCAGCTGATGTTTCAGGACTTGCTGNGCTGCTTGTTTTG
TTCGTTATAGGTTTAATAAGTCTATTGAGGAAGACCTACTCCTGTGTGAATCTTTGCAAA
GTAATGCTACCGGTGAAGAAATATTCAACTGTATCAACAGTTTTATGCAGAAACATGAAA
TTGAATGGGAAAAATGTGTTTGATGTTTGTAGTGATGCTTCTAGGGCAGTGGATGGGAAA
ATTGCCGAAAGCTGTCACCTTAATAAAATATGTGGCTCCCGAAAGCACCAGTAGTCACTG
CCTATTATACAGACATGCCTGGGCAGTTAAATAATGCCTACATCTCTNAAAAATGTGCT
AGACCAGGCTTTCTGTACCTGCCCGGGCGGGCGCTTAACNAGGGGGGATCCCCNNGGC

Sequence 90

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCGAACAATG
ACAGGGGAAGGGTATTGGACACGGCAGCGTCTCTTATTGAAAACACATTATGTCAGTT
GGGAATTTTAAATAAGCTTTTAGCAAACCTAACACTAAAAGCAAAATANAAGAAAGCTAT
ACCATTAACATAATACATTTTTTCATCTCATGGCTACAATGGAATTNTGAAAAGGAAAAA
AAAATCCTATCTACATATAAAAACCTGCATGAATGAATCACTACATATGCTTATAATGAG
GAAGAGTTATGGGCTCTGAGTGTAATTTTTATCCTTTCTTAAAAAGTTTCTGTATTATG
CATTTTTGATAACACTCTGATGATCCTTCCCTTACATTTGAAATGTTATGTACCCTNNGC
CGCTCTAGAACTAG

Sequence 91

CCGCGGTGGCGGCCGAGGTGGCTATTGAACTTCCTTTTCTTGTGTTGAAGTTAGCTTCAAA
TTGTTCCTATCCAGAATTTACAGGTAATTTAGCATAGGAGCAAAATACCTGTAATA
TTCTGGATAGGAACTACTTGAAATAGTAATTTGTTAAAGATATGACAAAATGAAATGC
TTAAACTACAGAAATTTAAAAATGCCATAACAATCTTGCGAGACTAACTTTAAATATAC
TTTAAATGATTATTATGATTTTGGTGGTAACGATCCCCACACACAACCACTATGAAGAA
ATAATGCCGCATTTTCCCCCATG

Sequence 92

ACACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTACA
TGGGTGTTTTGATCTCTGTTCTTTCATACTACATTTGAACAGGGCAAAATGAACTAACTG
CCATGTAGGCTAAGAAAGAAATGCTAACCTGTGGAAAGTTGGTTTTGTAAATTCATGG
ATCTTGCTGGAGAAGCATCCAAGGAACCTCATGCTTGATTTGACCACTGACAGCCTCCAC
CTTGAGCACTATTCTAAGGAGCAAATACCTTAGCTCCCTTGAGCTGGTTTTCTCTGATGG
CACTTTTGAGCTCCTAAGCTGCCAGCCTTCCCTTCTTTTCTGCGGTGCTCAGGGCATGCT
TATTAGCAGCTGGGTGGTATTGGGAGTTGGCAGACAGGGGATGTTCAACTTAATGAAGA
AATACAGCTAAGGCCTTGCCAGCAACACTTGCGTAAGTTACTGGCTTGAGTGAGGGCTTA
AAAAATTNAAAGGTAAGTGGGTTTTATCCTCTATCCCTTTTCCCT

Sequence 93

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGGATGGACGATACTGGCT
ACAGCGAGAAAGCAACCTTTGCCTCAGTGACATATCCTCGGGGCTATCCCTACAACGGGA
CAAACATATGTGAATGTCACCATGCACCTCCGAAGTCCCATCACCAGGGCAGCTTACCTCT
TCATAGGGCCATCTATAGATGTTTACAGAGCTTCACTGTCCACGGAGACTCTCAGCAACTGG
ATGTGTTTATAGCCACCAGCAAAACATGCCTACGCCACATACCTGTGGACAGGTGAGGCCA
CAGGACAGTCTGCCTTTGCACAGGTCATTGCTGGATCGTCACAAAATTCTGTTTGACCGG
AAT

Sequence 94

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTGCTGAAATTGAGA
CTCTTCTCCCTTTTGGAGCAGAGGTCAATTTCTCTTGACATTGAATTCAGTATTTGTGCA
GAAAAGAGGTGTCAATGAGGACTCCATGGATACTTTCAGTTGATCAGTATTGGCTCTGCT

GCAGGGTGATTTTGGCTTCACACATAAATGTTGCAGTGGCATTGTGCCAGGGGAAAGCCC
GCTTGAGGCTGTAGGATGACCCTGATGGAGGCTGTCACTCAAACAGCTCCAGGTAGTCA
GGCAGCTGGTCCTGCTGACCACAGGGATAGAGAAGGAGCTCCTTCCCCGGGGAAGTGATG
GGT

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAGAAACCCACCTCACC
CCGGCTCACATCTAAAGGGGCGGGGCCGTGGTCTGGTTCTGACTTGTTTGTGTTTTGTGCC
TCCTGGGGACCGAGAATCTCCTTTCGGAATGAATGTCATGAGAGGCTCCTCTGAGGGC
AAGAGACCTGTTTTAGTGTCTGCATTTCGACATGGAAAGTCCTTTAACCTGTGCTGTCAT
CCTCCTTTCCTCCTCCTCCTCACAATCCATCTCTTCTTAAGTTGACAGTGACTATGTCAG
TCTAATCTCTTGTTGCCAGGGTTCCTAAATTAACTACCTTAACCATGATGCAAATGTTT
TTCATTTTGTGAAGACCGCTCCAGACTCTGGGAGAGGCTTGGTGTGGGCAAGGACAAGCAG
GATAGTNGAGTGGAGAAGGCTTTGGAAGGNNTTTA

Sequence 55
CCGGCCAGGTACCTAACCTACCTTTAAGACTGGGATACTATTGAAACAATAGCTAATA
CCGGNTATAGTNATTTATCGCATGATGAGTAATAGAAAGGAGCTTCACAGCTTNACTTAA
AAATGGGGGTGCGGAACATTANTTAGTTGGTAGGGTAATGGCCTACCAAGACGATGATGG
TTAGCCGGGGCCGAG

AGGTACAGCCTCTCGGCCCGGCTAAACATCATCGTCTTGGTAGGCCATTACCCTACCAAC
TAACTAATGTTCCGCACCCCCATTTTTAAGTGAAGCTGTGAAGCTCCTTTCTATTACTCA
TCATGCGATAAAATACTATATCCGGTATTAGCTATTGTTCCAATAGTTATCCCAGTCTT
AAAGGTAGGTTAGGTACCTGCCCG

Sequence 50
TATNCTGGAAGTGAAGCATAGACCTNTTNCAGGCAGAGCTGACAGCAAGTNAAGGAGATC
ATAATCATGGGGACCAAACAACTTTGNCATAAGTGTGAATGTNACCTAAGGAGAAGCTGT
GAGATCAGAAGGGNGGGGCAGAGGAGCAGACACCATGAGGGAGAGTCCTTGGGGGTACCT
GCCCCGN

GGGGAACACCCCCCNGNGGCGGCGCGANGCCAANANCTTTTTGNGGGGGAGGNAACCCCA
CCCCCCAGACAAAACNGNACGNACCNCGGNNTTTTGAACANAGGGGNGCCCCCCCC
ANAAAAANNNnn
nnnnTTANAAAATTTTTTGGGGGGGGGGGCGNCNCCCCCGNAAAAAACANGGNCANAGAAG
NNCCCCCGNGNGAAAGGGGGANCCGNNCACAANNNCACACACACACGAGCCGGGAGCAN
AAA

Sequence 102
GGNAACCCCCCNGNGGCGGCCGCCGGGCAGGNTCNCTTAGGGGGGGGGNAAACCACC
CCCCCCCCNGNGCGAAAGNCNACNNNGATGTTTTAGNTNCANGGGGGGAANCNCCCNG
NAAAACGGGNGNCAGGCNGNAANNNNCNNNCNNNANAAANNCGCAAANCNAAAGAACG
ATTTTCC

ACC GCG NGG CGG CGC CGC CGG GCA GGT ACT TTT TGT NGG NTG GGG AAAAA ACN CTT TAA CA
AG CTT AGA TTT ATT ATN GCG CCT TTT ATG GAAG ATG AGG AAG AAAT AGG AAA GCAG TAAA
ATG AACA ATG AGA ATCT GTT ACC CAA ACTG ATATA AAC TCC CT CAG AAA GAA AGATA CTA
CTCC CTA ACT CTNTG AAG AGG GGN AGN GGC AATA ATG ATCAA ATGCC GNA AAG GGG ANT GN
CACTACAGCTAATAC

AGGTACAAGGGATTTTAACCNTTNNNCANAAAANCCCANNGTGAATGCTTNGCCATACTT
GCTTTAAGGTGTTATGGTNGGCACAGTTTACTGGCTTCGCCGTGTTAAATTTACAATGTC
CTGTTTGATACTACTTGTTAGAACACTATTTTTTTAAATACAGAAAAAGCTNCCTATAAT
GGCAACTTTCACAGAAATTTAAAAAATNCACAGGAGGTATTTTATTACCCAATGGCTT
GCCAGGGTTCCCTG

Sequence 100
CCGGGCAGGTACAGTTGGATTGACTACAAAAAAATTAGGCCTTGTCCATTTATCCAGA
GGTTTCCTTCAAACTTTTAAAAAATTTATCACCTAAAATGGATTTTAAATTATCAGAA
TTAGATGTAGCAATTAAGTAAATCTTAAAGGAGGTGTAGAATTCCTTTAAGAAGTTATT

Table 1

GTCTGCTTCCCATTGCAGCAATGTCTGCAATACTACTTTTTTAAATGAGCCCAGAAACAA
TTCTCTGCAACTGTAAAAATTATGCCAGAATGCAAGTTTTTGGTTAGTGCCATAGTTTCG
TTTTGTTATTGAAAAATGGGATAAGTCATGATTTATTCCCTCCCTTCTATGGAA

Sequence 104

AGGTACTTTTACCTTGAATCTACTAGAACTCTCTGCTATTCAAAACAAAGAGCTCATACT
TGTTGGAGTAGGGAAAAAATTAGAAATTTGACCAAAAGATAGATTCAATCAACTACAAAG
TCAATTCGAAGATGCTGATAACATCGAACTCTTGAAAAAGAAGTATTAGAAATCTGGAGT
TGAACCTTAATGGATCATATACCTGTTTTGCTTGATCAAGTGATTGATCAGCTTAATATT
AAAGAAGATGGTATCTATTAGATCTTACTTTAGGACGTGGTGGTCATTGAGTCAAATT
TAAAAAACTTACTAGTGGCAAGCTTATAGTCTTTGATAAAGACAAA

Sequence 105

AACCCACCGCGGTGGCGGCCGCCGGCAGGTACTTTTTGCCATGTCAGTNATGACTCC
AATTTTCTGTGTGCAAGAGCAATCACACGGAAGCCCTGTTTAGTGAAGTCTTCCAAAACG
TTTTGAAAATCGACAGGAACTGTTTCAGGTTTACAGAGACCGGCAATGGCCTCGGGCGCT
CCTTTNATGTAGGNTCCATTTTCTATCCCCCAGCACCCCTGGCAACCACACTCATACGT
TGCAAAGCAGAAGAAATGGGAAGTGGCGAACAATTCCTATCTCATAAGTAGCTGGAAGT
TCAAACAGCTCCATTTCTGGTTTCTGCGAGGGTAGATTGAGGAAGCAGTTGTTTGGGA
GGACGAACCACTGTGGGCA

Sequence 106

CCGGGCAGGTAAAAACAATTAGTAGATACTAACTACTATTTATTCTTGCCGGTATGGG
CGGAGCAACAGGGACTGGAGCTTCACATATTTTGCAAAAGTAGCCAAACTCTGAAATC
TTAACTATAGCTATTGCTATCCAACCTTTTGATTTTGAAGATAGTAAAAGGCTTTCAG
AGCTTCTGAAGGAATTAAAAACTACAAGAAATTCAGACGCGCTAATTGTAGTTTCCAA
TTCTAAATCGCGGAGCTATACAACGGCATAAGTATTTGAGATTCTTTTACAAAAGCTAA
TCAAATTTATTTTGATATTATTTAACTATTATTGATTTAATTAGTAAACAAGCT

Sequence 107

NNNAANCTCNCCCNCCAAACNNNNCCCGGNNNNNNNNNGGGGGGNTTTTNTTGGGGGGA
NGGGGNNNNNNCCNGNNNNNNNNNGGCCGCCGGCAGGTACATTNCAAGGGTTGGAAC
CCAAGCCCCACCCTGGGTTTTCTTAAGTTCATTATTTCCCCCAGGNAATTCCCTTGG
GAGTTCCTTGCCAGAAGCCATCAGAGACAGCAGGCGAAAAGCAGGGCTTAACTGAATNC
CATATTGGGG

Sequence 108

AGGTACATCCCGAAAGACAGCAAAAAGAAGACCCGAGCTGAAGATTACTCAGCAGGG
CACGGACCCGCTTGTCTCGCCGTCCAGAGCAAGGAACAGGCCGAGCAGTGGCTGAAGGT
GATCAAAGAAGCCTACAGTGGTTGAGTGGCCCGTGGATTGAGAGTGCTCTCTCCACC
AAGCTCCCCGGTGCACAGGGCAGAACTGGAGAAGAACTGTCTTCAGAGAGACCCAGCTC
AGATGGGGAGGGTGTGTGGAAAATGGAATTACCACATGTAATGGAAAGGAGCAAGTGAA
GAGGAAGAAAAGTTCCAAATCAGAGGCCAAGGG

Sequence 109

AGGTACAGCCTCTCGGCCCGGCTAAACATCATCGTCTTGGTAGGCCATTACCCTACCAAC
TAACTAATGTTCCGCACCCCCATTTTAAGTGAAGCTGTGAAGCTCCTTTCTATTACTCA
TCATGCGATAAATACTATATCCGGTATTAGCTATTGTTTCCAATAGTTATCCAGTCTT
AAAGGTAGGTTAGGTAGCTGCCCC

Sequence 110

AGGTACCGACCGCTCCGAGATCTGTATGAGTTGGAGGCAGGCCAGTGTGAAGGTGTGGGA
GGAATCCGCCACACCCAGCTTCATACAGCACCCCTGAGGACAATGTGGCTTCCCTGATTG
ACACCTACTGAGCCAAGGCCCTCTGAAGTTAGGTCAAGAGGGCCACCCTAGCCGGGC
CAACTCATTCTTTGAGGACCTGATACTCAATGAACTGCTTACTACCAAAAAAATGCAAA
GGATTGAGCAAAAAATGCAATTTCCATTTGAGAAGTAAGATTCTCCCCAAAACATGACAC
CACCTTTTCATCCTTTCAGTACCTGCCCGGGCGGCCGCTCTAGAA

Sequence 111

CCGGGCAGGTACTACCATTTAGGAACTGCTATAACACATAATTTTCATGAAGTAACACCT
AATACGGTGTAGTTCCTGGTCATATTTTATACAATCAACCATATAAAAGGGTGTCACT
GTAATTTTCAGTAGTGTGGGTTTACAAATAATCTGCTGGTTAGCTTATTACCTTGAGGTTT
TGAAAACTAGAATTATATTGAGGCATTTTATAAACATATCTCTTGCAACCTCTTCATGG
TGGAGTTAAGGATAACTTGCAGGTGGTTGGCCAAGGCCCAATATAGATGATTATAACATT

Table 1

TAGAATTGGCAATTAGAAAGTTGATAATCCATATAGGACCATAGG

Sequence 112

AGGTACCCACCTCACATTCTTTAACACTTAAGGTTTTCTGGGTAGTAAGTGCAATACAT
TCTTATTATAAAACAATATGGACAGTTCAGTATGTATAAATGAGGATAAAATCAAAATCA
CCCACAATCTCACCACCTTTGTGATAATAACCATTAACTTCAATATTGATGAATTTCCCTTG
AATGTTTTATCTACAATATTTCTTTTCATATAGTTGATATCACTCTGTATGCACAACTTG
TATCCTTTTTCTAAATCTTAATATCATAATATTAGCATTITCTAAIGTTAGTAGATGTAC
CTGCCCCG

Sequence 113

AGGTACTATGAGTTGCCACCATGTGTCATGCAACATAACATATTGCTTTCTAATGGAATATA
GTGAGCTTACGATTGATACTATGGACATAACCACAATAGCTAGAGCATAGTAATAGTATT
CATCAGTGCTCCACAGTATAACACTGAACAGCTGGAAAATGTAAAATGGGTTGAGAACCT
CTTTAATTAGAAAGCTTAAAAACAGAAGGCACCTTTACAGCAATTTCAATTTACTCCATAAA
GCAGTTTTCTGTAGGCATGCATCCCCTTGTCAGTCCTGCACTATGCTTTTCATAAATTG
ACGTACCTGCCCCG

Sequence 114

AGGTACTGCACTGGTCATTGATAAAGATGTATTCAAAGGCTCACTTAAAGACTTCGAATA
CAAGCTGATGGGAATCTGATTACTATTTTCACTGCTTGGAGCTGATCCAAATTCAGAGAG
AGAAGGTTCTGACCCAAATTCAGAGCCCCAACTGCACATTTAATCCTGTGACATCTGC
TGAACCAGGCATTTCCACTGCAGAAGCTGGGATCTTAGAAGCTGGGGGTATCCGCCCGCTT
AGCAAGTTTGATGTGTTTGGGCTGTGGCTGGTGGACAGACACAGAGATATTTCAATGGT
CGTGCTGGGAAGCTGCAAAAGCTTGTCACAGTGGAGGGACTGTC

Sequence 115

CCGGGCAGGTACCTGGTTCTACAGATGGTTCTCATGCACAAAATTTCAGAACCACATTGT
AGAAAAGTAAAGCAGTATGACATGCTTTGGAACTGCAGATAATTTAGTGCAACTGTATT
ACAGGTTACAGATAATAAGAGATGAATCTGGAAAAGAAAAGATGTTATGGTACCT

Sequence 116

AGGTTTTTTTCACTNNCGTATTGTTTATGGAAGAAGAGATTAGAGGACAATACAAGTAG
CCACAGCTATGATGCATGGAATACTACAGAATATGGTGAAATGCTATGTAAGGGCTAGAA
ACAATTCATTAGGTGTACCTGCCCGGGCGGCCGCCCGGNCAGGTACATGCAATCGCCTG
TGGTAGCCATAGTCAAGGATGTGTCTTCAAGACAGAACTTGCTTTGTGGCCCTCAGCC
ACTCTCCTNTGGGTGTTGNCATCAAGCANGTCATAGAGNCTAACTCATCCATACTGTGG
NAATG

Sequence 117

CNNGGCAGGTACCTAACCTACCTTTAAGACTGGGATAACTATTGGAAACAATAGCTAATA
CCGGATATAGTTATTTATCGCATGATGAGTAATAGAAAGGAGCTTCACAGCTTCACTTAA
AAATGGGGGTGCGGAACATTAGTTAGTTGGTNGGGTAANGGCCACCAAGACNATGATGT
TTAGCCGGGCCGAGAGGCTGTACCT

Sequence 118

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAACTTCCTTATTTACAA
ATTTAAGTTGGTTTATATATTTTATTGACATGGTTACTCAATGTCCACATCATTCCATC
TGCATCGTCTTCTACAAACAGTTTTCTTCTACTATTTCGGTTATTTCTCCTTTTTTTGT
TTCCTATTTGAGAATCAAATTTATTTTACTTGCAAAGTCAGTGAATATGGTTTGAACC
AGTAGGGCTCTAACTTAAGCCCAGAACCTGTCAAAGAGAAGTGCAGTATCATTGCTAAG
ACTTGAACAGTTTATCTCTCAGAATCTTCAGTTCTTTGAATTTCTCAGCTCTTAGTGTA
ATCTGTTTATGTGTTTGTGNAGACTTCCATTATGGATAGATTNCCAAAATAANTTGGG
TAATCAACTGGTATTTTAGCATTCTGGGAACATAACATGTTTAAAAATCTAAGGCTCTTT
TCATGCCAAGGAGACTGATTTTTGGCTT

Sequence 119

TTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACAGTAATATCATGAAGCTGC
TGTCTGCACTTGTCATATCCTGTAAGCCAGTAACAATAAAATTCAGCTTTTGGTTGAGC
CCGGCCTGGCTGCTGGGCTGGAAGTCACTGACGATGATGCCGAGCTGCCGAATGTTCTCC
ACGAACCTCTCCAGGTGCTCCTCTAGGTGGTCAAACCTCTCCGCCACCTGCCCCG

Sequence 120

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGGAAGAAATTGCCAAGGA
CAAAGTTTTAAAGACTTTTATGTTACATACAGTAATGACTTGTTATTTTAGTTTATTG

Table 1

AATAGACAATATGGCTCCTAGTCCTGGTCATATATTGAGAGTTTACGGTGGTGTGTTTGGC
TTGGTCTGTTGCTTTGGAAGTGGCTCACAGAAAAGCCAGAACTGTTTCAACTAGCACTGAA
AGCATTACAGGTATACTCTGAACTAATGATTGATAAAGCAAGTTTAGGTCCAATAGAAGA
CTTTAGAGAACTGATTAAGTACCTGCCCG
Sequence 121
GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGATGGGTCAATTTTCTTGATATTTTCTCT
TGATTCCCCTCCTTCATGGCTGCATATCTGGCTAGCGTGAAGAGATAGTCACTGAGTCTG
TTTAAGAACTTGGCCACGTTTCGCATCGGTCTCTCCATCTGGACAAGAGGCCACACACGT
CTCTCGGCCCGGCCGACACGGCCCGGCAGAAATGCAGCGCCGAGCTGATCTTGCCCTCCG
GAAGGCAGGATGAAGGCCGTGAGTGGTGGGAGCTGGCTGGTGTACCT
Sequence 122
GAAATAAAAATTAGCAAACAATTATTCTAGGGATATTTTCAATTTTACTTCAATTTCTTG
AAATGCGNGTGCCATATGCAATTGCATTTCTTGTCGCAAGAACTAATAGAACTTATTTT
ACTTTACCTTTTTTAAATGTGAATTTAGTTATTATAGTTTCAATTTTATGGCCTTACA
GATGGCTTTTATTTGTTTGCAGCNTGACACTGCAGTTCCTTTTCATGCAAAATACCCATA
AACTGTTTTGATGGAAAAATTCATTGCCCTTAATGGGAAAACCTCTCTAGTTTTTTCCC
ATTATAAACTANTTCCCTACTGNTACCCTGCCCGGGGGCCGGCNCCTTTTCGACCCA
AACCATTNGTNGGGTNGAAGCNATTTTCCAACGGGNGCCGCCAATTGGAAANGTCCCTNG
GGGTNGCCTTGGTGCCTTNCCTGAAGTCNTNCTTGGNAAATAATTTTTTGGATANGGGAA
AGCCGGACCANAGGGAAAAAAATTT
Sequence 123
TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACAATAAAGT
CACCCACCCTGCACTTTGGCCCTTAGATCAATCCTAAGTAGCCATTGCCAGTAGGCCAAG
TTTAATCAGAGGACAGTGCCTACCAGTAAATACTGAATAGTTACAATAGTTATGTCCATC
CAACCAGTAGCAGATGAACAGCTAATACATCATGATGCTATGCTCTCCTAACAGGGTCCC
CTCAGATCCTCAGTGAGCACATAAAGAAAGGGAGGTACATCCCTTACATCTCTACCAGG
TATTAACACCTAACTACTCTCTAGCCAGAGGCAATTCCTTTTACTCTCTCGTCG
TCTTCTCTTTAGCCCAATCTCCTGACAATAGTTAAACAAAAAGACCCCCAAAATATCTC
TTGCTAAACAGAAAGTAGTCCCTAAACTCTCTCATCTTAGACTACTGTCAGGTACCTCGG
CCGCTCTAGAACTAGGTGGATCCCCCG
Sequence 124
CCGGGCAGGTACAAAGCACTGGAATTGGGGAAATAGCAGGGTGTTCCTCCCACAATTAGA
AGCAGTGTTGCTTTTCAATTTCTTTTACTGATTAGCACTAAGTAGACATTAACCTATAT
GAATTTTCAAAAACAGCATTTAGGGTCCACATTTATTTTAATTCTGATCTTCTCTAATC
TAATTGGGTGAACTTATGGTGAAAAATATGCATAGTTACTTTTGACATAGATTTGTTT
AAGCATGAAAGCTAGGAATTGATTAAACCAATACATAATTTAGTTTTGTGTTACTTA
GTTTCTTTGTAATAGTGTGTAGAATCATGTGAATTAATG
Sequence 125
TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTAGTTTAGTTTATTTCTAG
TTCAAAAATAATCTGTAATTGCTGTAAAGAAATGTCAACCACTTACCTAGGATGTTTGACA
ATTGGGATGAAGTCTACATATACTAAGNAATGGCAAGACAATTATTTTATTGCTCAAAAG
AAAGTCAAAAAAATTCATATTCCTTTGGGGAAAATTGGCAGGATTTCAAGTATGACCT
TTAAGAATCAGGAAAAGACTAATCTATGCTTTAGGATTAACAACATCAAATAATTAAAT
AGTTCAATTTTCTAACATAGTCTCTATCTTCAGTTAAAGTGCATCATTGCATGTTATACA
TTACTAAAATTACACAGTGCATAATTGTTACCATGTGACTATTTAATTAGGGTCAACTG
TCTAAAGGTCTCAGGTGTCACATTAAGGGTTATAATCTAGATGAATTGGAACAAGAAAGA
AAAGATTTCT
Sequence 126
AGGGCGAATTGGAGCTACCGCGGTGGCGGCCGAGGTGCGNCCGCTGACCTGGGGCAAGT
GCTTTCAACTCTCTGAACCTCGGTTCTCATCTGCCAGTTGGCAGACGCTCAGCAAATCT
TCCTAGACTACGGGGCGAATTGTACCTGCCCGGGCGGCGTTAGAACTAGTGGATCCCCG
N
Sequence 127
CTTAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATTCCCAACAGCATGTCTT
TCCTGGTTCTCTACCCCCACAGCACTTCTTAGAGCAGAGGCAGAGCCAGAAGCTGTGTG
GGTCACAGGCAAGAGCTGAAGTAAGACCTGCAAGAGGCGGCAGGGAGCTAACTGTAGCAC

Table 1

GAGGACAAAAATGAACACGGTAATACTGAGGTAAATGAACACTCAATTCATGTGGAGGCT
GTAAACGTCCTGATGTCACCTCTGCCTCAAGAGCAGAAAATGTGACTGGAGTGTTACAG
GAGGGGCTGCCAGACCCCTGTGGGAATACTACATCTGGGACACCTCAATCAAGGAGGCA
AGAGAGAAATTTCTGGCCACTGGCAATGAAGCATACTGGCTTGACAGGGACCTTCTGATTT
CAAGTACCTGCCCGGGCGGCCGCTCTAAAACTAGGT

Sequence 128

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGGCCCGCCGGCAGGTACCCCTGCCGGAC
TTTCCCTTAAAGAAGGAGAGGATCAGAAAGAGATAAAGATTGAGCCAGCTCAGGCTGTGG
ATGAAGTGAACCTCTACCTGAAGACTATTATACAAGACCAGTAAATTTAACAGAGGTAA
CAACCCCTTCAGCAGCGTCTGTTACAGCCTGACTTCCAGCCAGTCTGTGCTTCACAGCTCT
ATCCTCGCCACAAACATCTTCTGATCAAACGGTCCCTGCGCTGCCGTAATGTGAACATA
ATTTGAGCAAGCCAGAATTTAACCACACGTCAATCAAATTCAAATCCAGCTGGTCCGTG
TCAATTATATCCAGAAGTGAGAATCATGTCAATCCC

Sequence 129

CCGCGGTGGCGGGCCCGCCGGCAGGTACATAGATCCTGATCTACTGGCAGAGCTCAGCGA
AGAACAGAAACAGATCCTGTTCTTCAAGATGAGAGAGGAACAGATCCGACGATGGAAAGA
AAGAGAAGCAGCTATGGAAAGAAAGGAGTCCCTGCCAGTGAAACCCAGACCAAGAAAGA
GAATGGCAAATCGGTTTATTGGAACTTGGAGCTGATAAGGAAGTCTGGGTATGGGTGAT
GGGCGAACACCATCTAGATAAACCTATGATGTGCTCTGTAATGAAATTATTGCTGAGAG
GGCTCGGCTGAAAGCAGAACAGGAGGCAGAAGAGCCCAGAAAACTCACTCTGAAGAATT
CACCAATAGCTTGAAACAAAATCACAGTACCT

Sequence 130

CCGCGGTGGCGGGCCGAGGTACATCATATGCCTGCTGAAGTGCTCTGACTTTAGGATGAGA
AACTCTAACATAGGCCGGAAGACAAATAAACCATAACTGTAAATGACTAAACAGACA
CTTGGCCCACTGTGGTGGATTTGTATAACATCTCTTCGCCAATTTATGAGCTGTTTTAT
TTCTGTTTAGTTCTCTTAGCCATGAGAGGTGGACTCTTGACCTGCCCG

Sequence 131

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGGCCCGCCGGCAGGTACAGTGTGTTGT
TCCTAATATTTTAAACACCTTATACCAATGTCTTGCAAAGAAATGTTATTAACCT
TGAATTTTACAAATGTAAAAACAAAAAGTGTATTAATGATTTGTTACAGAAAAGCTA
CATACCGAAGGGCTTTTGTATATGAATCTGTGGTGGGAGACCCATTTGTAATCTATAT
GGCAGTTCATCTGGGTTTTAAGTTTAGATTTACCGTGTCTTANCTGCTTCATTCTATT
GGTTTATTGGAACATGTAATAAATAGGAGTAGTGATGTATTAACACANGNNTTCATTA
ATGNTTTATATCTTCACTAAATTTATAGTTATGAACTTTTATCAATCAAGGTGTTAT
ATTTAGTCAGAAGTAAAA

Sequence 132

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGGCCCGCCGGCAGGTACTACCAAAATA
GTTCAAAGAGTTCTGTATTATCCTTAACATAGTGCTTTTTTTTCTTCCCCTTCTCTTG
GGGAAGCTACAAGACATAATCCTTCAGTGCTTAACTGGAAAGAACAGTCAATCCTAAATA
TTAAAGAATCTTATGCTGTTGAAAGTAAATGA AAAATTTGAGTTATTTGTGGCATATTT
GAGCAACCAATATTTATTGCATTTAATCAACTGACTTTAAAAAATTACAATCTTGTTACT
TTCATTAATTTAGCATGTGAAATTTAATTAGAAATACTGGGTACCTCGGCCGCTCTAGAA
CTAG

Sequence 133

ACTATAGGGGCGAATTGGAGCTCCCCGCGGTGGCGGGCCGAGGTACANGAAATATTTTGTA
ATGTGTTGATTTTAAAAAAATCTGTAAATAAGTTTTAAAAAAGAATTCAAATGGCAC
ACGCTGAAATATGTAGATATTTTGCTATTTATTTAAAGGAGTATTTAAGAGATATTGAA
CTATCTGAAATTGACCAGTAATCAAAGTTTCAATCATCTGAATGCTTTTCTTGAGGTAG
AATGTGAGTCTCAGAAATGACTGCATTACCTGCCCTTTTTTGACCTTTTCTGTCTTTTT
ATTTTGCAACAACAACAACAACAATAATGTGCCTTAGCTGTATTTTTTTGTCTAGGGG
GAGTTTGTCTGTCTGACCAAAAGCAACATTTTTTGCAAAAACAGGNGGATGGTATTA
AATACTGGTATCATACCAAAAACCTGCCANGGTGGTATATAGGATGCTTTCTGTCATACT
GGTGGTTTTTCAGATGCAGAAATTT

Sequence 134

CCGCGGTGGCGGGCCCGCCGGCAGGTACAAAGCTTATTCACATTTTTACTAAATCCAACA
CAACTTTCACAAATGGCAAATGATTGCCTCTCAAAGCAATGCAGCCTAGTTTTTGGTG

Table 1

GGTTCTGGTCACTGCTTAGCTAAGTCTTTGTTGGGCAGAGTCCTGGCTCCACAGTCTCCT
TCGATGGGCTCCTCGATACACGAGGCTTCATAACATGCGCTCTTTGAAGAACCATTCTG
ATGATCCGAGTTGGTGCAGTCTCGTAAGAGTGGAACGAACTGTCACTCGACTCCTTCCT
CGCAGCCTGGACACATTTCTGGACTGTTCTGTAATAAAAGATCCATCCTCCTGCAAGA
TGAACCTCTGATTCTCTGGGGGCA

Sequence 135

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGGCCGAGGTACTGGCCTCTTTGAGTATGA
ATGAACCTTGAAGAATAAAGCCTTCCAGTTGGATGAAAGCACATCCAGCCTTTTGTGAGT
GACAGCTTTGTATATAATCTTATGCAGAGCTGATATGGATTCCCTCCAGGCAGCTCAAAT
CTGGAAGTTGTAAATGAATGGCTATGCCACCTTGGAGTATCACCATAATACATCTCTGCT
TTAGAGCTGATATACAGATGTGAAACGATCGAACAACATGATTTCTCATTCTAGTGCTCC
TTAGAAAGGAGTTCTGATAAGCCCCAAAGCAGACCTGGGTGGAAATCGTGGTTATTATTC
AAGTACCTGCCCGGGCGGGCGCTCTAGAAACTGGTG

Sequence 136

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGGCCCGGGCAGGTACCGCTATATCCG
CCAGTTGATGACTGTCCATCTCTAGCCCCCTAACCATGCTATGCACCCAGTGAGTGCAG
AATGATTACTAGTAATTGATGTTGACTTTACAATTCTATGACATGTAATACAGGATGCCG
AGGCACCTTTTAAATCCACCTAACATGTTCTGGCACTGGAAAATCTTACTTGAGATTTT
AATACTGGTTAATATAGGAAAAATTATGCTTAAGCACCCTAACTTAAAGTGTAATTTT
ATTTTCTTGAATTTAGGTAAAAGCAAAATCTCAAAATCTATTATGGCACATGGTTTCA
CAGTTTCAACCT

Sequence 137

CCGCGGTGGCGGGCCGAGGTACATACATACTCTAGTTATGAGCACCTAGGGTCTTTCC
ATCACTCTTGCAAAAGTGTGTGTGNGTGTGTGTATACATACACTCACACATACATA
TGATACACAGACATCTATATNCANANATAATGTATATGTGNGTCTAATGTATATAAT
ATATACACATAGACATACACACAATGCACATATCATAGCTCAACCTNATCTAAACATCTA
GAGTNTGGAGAACGTGCTGGCCAACAGAATACATGTGCATGTGGATGTCATGTGACATGC
ACTAACCAACCATCCNGAGGNAACTGTTGGGAGGAGGAACTGCCCAATNTTTGAA
AATCCAGGCCTACCAGGCCATTATT

Sequence 138

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGGCCGAGGTACCAGNGCCCNNTTTT
CAGTTNTNGATTGCTCTAGACTTTTTTTTTTTTTTAAAGGGAGGGAAAAAATTTGATA
ATTTTCTTTTTTCTACATGCCTTAAGACTAAAACACAGGTTTGGATTAAATTTATTTG
TTCTTTTTCCGCTTTTCTTCCCGCAGAGCCTGATGGGAGAATGTCCAGGGCAGGGAAC
CACATTTTTGTAGGTGATAACTCAATGAAATTTGGTGCTTATTTTTTACACTTCTCTCT
TGTGGCTCTCTGNGGTGCTATCTGTTTAAAGGTCTCCTGAAGGCGCACTGGGTCCCT
GGCCATGCCTCGTTCTCCCTGCTTTCTTTA

Sequence 139

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGGCCGAGGTGTGCTATAGACGCACAAAC
GACCGCGAGCCACAAATCAAGCACACATATCAAAAAACAAATGAGCTCTTATTTTGAAA
CTCATTTTGGGGTGCCTATCCAAATGGCCCGGACTACCAAGTGCATAATTATGGAGATCA
TAGTTCCGTGAGCGAGCAATTCAGGGACTCGGCGAGCATGCACTCCGGCAGGTACCTGCC
CG

Sequence 140

CCGCGGTGGCGGGCCCGGGCAGGTACTTTGATAGAACTAAGGAAATAGTGTTTTGAG
TGAAGGGAAGGAAACCCAGAAACATTTTACGTTGCTTTTACTTCTGTAGTGTAGATTGC
CCCGGCCCTCTCTGAGCCCTGTAGCATCTGTGATAGCTTNTGTCCCTTCATCGGTTCA
GTCACAGGGATTTTCTTCCAGGAAGCGGACACGGAGAGTCAGCCCTAATAAATGAGCA
CATGCCCTGGC

Sequence 141

GACTACTATAGGGCGNATTGGAGCTCCCCGCGGTGGCGGGCCGAGGTACAGATTGTTCTCA
AGAGGGCCATCAGAAGGAAGCCAAAGAGTTACAGCCTCAGCACCAACAACTCAACATGG
TCATCATGTTTTCTATATGGTTTTTCCAGCTAGCAGTACCTGCCCG

Sequence 142

CCGCGGTGGCGGGCCCGGGCAGGTACCCTGAGAAGCATGGGGCAGTAGAAAGAGCATG
TGGGCTTTAGAGTTCAAACCAAGTCAGGCTCAACATAGTTCTGTGATAAGCCCTGAGCA

Table 1

AGTTACCCGGGTCTTCCATTTCCCCCTTCTGGAGAAGTCCTTTGGAGGATGAGTCCTTCT
GGAGGATGAGTCCTTCTGGAGGATGAAGTCCTTCTGGAGGATGAGTTCGTTGTAAGAATA
AAATGAGAATGTAAGACACCTAGAGGATGCCCGAGTAAAAAATGACAGTTGCTAGTAGTA
GTAATTTGTAGGGCTCATTATCTAGAATAATTTGTTTGACGTTACTAATTAATGAAC
TCTTAAAGAAAAGCAGTGATTTAGACTCTTGTAGTTAAGAAAAATTACACCACAGAGCC
CTTTTACTTTTTAAATTCATTTTACATTTTAAATTCATTGCATGTATTCATTATG
Sequence 143
TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTATATTAAGTGGT
TCTATAAAGCTATTCACAAGTTCTACTGTGATGGACATCCTCATCATAGACAACTCC
CCTGTTTTATCCTCAATTTCTAGTTACAGAAATTTGGTGATGCTTATTTTTGCCAATTTT
ATGTCAAATAAGNTAAAACCTCCCTCCTGTTACCTCTTGGGTCTCTATCCTGTGTAAC
CTNTGGTGTAGTATTTGCCATAGGCAACCAGAGCCACTTCCTCTGAACCAACATCTNC
TGGGGACCTTCGCAGCANGAGGAAAGCACTGAGACAATAGCTTGCTAAGCAGGGGCCAG
NGGTGTCTCAAAGAAACCATGGNTGTNCTCGCCACTTCCCAGGNGGGTGANGNGAGCTC
GGGAACATAACGATGGTTTTG
Sequence 144
TNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAGATTATG
CTTACCTCAGGTTTCTTTAGTGTGCTTGAATGCCCTTCTTTCCATATAACACTTATCTTC
TTCTTAATTCGGCAATGGAATATCTTTAAGTTTTAAAAAACTGGAATAATTATATCTA
TCTTTTTTCCGTTTATATTTAGGGGTTTTGTTGATAAAATCAAGTCTTGGTTGTGGCT
TGCTGAATTAATATTTATGAGTGGTGCATTTTTAAGTATAGTGAACAAGACACCATATT
AAGTACCTCGCCGCTCTAGAACTAGN
Sequence 145
CCGCGGTGGCGGCCGAGGTACCTGCCGAGTGCTGCTCGCCGAGTCCCTGAATTGCTCG
CTCACGGAACATGATCTCCATAATTATGCAACTGGTAGTCCGGGCCATTTGGATAGCGA
CCGCAAAATGAGTTTACAAAATAAGAGCTCATTTGTTTTTGATATGTGTGCTTGATTTG
TGGCTCGCGGTGTTTTGTGCGTCTATAGCACCTTGACACAATTTATGATGAATTATGGAA
ATGACTGGGACATGTACCTGCCCC
Sequence 146
ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAACCTCATCAATGT
CTCTAAACTAGGTCTTGAATCTAAATGGAATTATACATAGAACTATTACATGAAGCAG
TTCTTTCACTACAATCATTTTATGCCCCCAGTGACCAATCTCCTCAGGTAAACAATGTC
TAATGACTGATGATTGTTTACTGTATGCCAATTACTGCTAAATCCCTCATATAGATTATC
TCATCTATGAAGACACAAGGATTATTAATAACCCCACTTCAGAGATAAACAGACACAGGT
TAACACATCTCGCTAACACCTNTTGTAAGTGAAAAACCAAGTTCAGAGCCCCAAAAGTT
Sequence 147
CCGCGGTGGCGGCCGAGGTCTGTATCTCATGTTTGCTGATGGCAGTTTGTGGGAGAGGGA
ACCATTTAGCAATGATTTAGTTAGCAATAGCTTTGCAGCTTTAACAGAACTCTCTCT
GCTTGCTTTTTTATTTCTGGGTTTTCTGGCCAGGCGCGGTGGCTCACGCCTGTAAATCCC
AGCACTTTGGGAGTCTGAGGTGGACAGATCACTTGAACCCAGGAAGCCAGGAGTTCGAGA
CCAGCCTGGCCAACATGGTGAAACCCTGTCTCCACTTAAAAAAAAAAAAAAAAAATTAGC
CTGTAATTCCAACTACTCGAGAGGCTGAGGCACAGGAATCGCTTGAACCTTGAGAAGCAGA
GGTTGCAGTGAGCCAAGATCGCACCCTGTGCTCCAGCCTGGGCAACAGAGCAAGACTCC
ATCTCAAAAAATAAAAAATAAAAAATAAAAAATA
Sequence 148
CCGCGGTGGCGGCCGAGGTACACTAAGTTTGCAACATTTATTGAGATCTAAGTCTGTCTT
GCCCTCATTTCTCTTTTATCTCCCCCTTGCCCTCATTTCTGAACAGCTGGAGTAATACA
TTTTATTCTGTCCATGAAGCATACACTATGAAATCAAGTGCTTAAAAATACTTCTATGA
CTCTCTGCTATCCCACTGTATAGATCCACAGGGAGCAACACTTAGAAATGATAGAGAAC
TGAAGGAGATCAATGGTTTAAAGTTATCCATGCCAAGTCCCATTGTCAGAAATATTCTT
ATTACTCAGTCAAACACTCTTTGAGCTTCCCTTCTAAAGGTAACCATTCAGTGAATAG
ATGTGCCCTTTTATAAGGAACTTCTGATGTTTATTAATAAAAAAACTGGCCTTTTGATAAG
AGGGAACCTAATTTGGGAATTTGGTGNGTGNAATGGCATTTAATT
Sequence 149
CCGCGGTGGCGGCCGAGGTACAGAAGTTAGAATTTTTGACTCCAGGCAGCAGTTTGCTCA
GTGATCTTGAACAAGTTATCCAATTGCCCTACATTTGCATCAGTTTCTCTAGCTGCAAA

Table 1

ATGGGGATAATACTATATACCTACCTCACAGTGGGAGGGCAGGAGATTTTGAGGCCCTGA
GGTTTTAGGTGGGCTGTGAGGGCCAACGCTTGACACAAAGTCCATGGGTATTATTCAAG
AATGCACAGGCCCATCGGCCCTTTAGAAAACAAGACAGGGAGTGCCTGTTTGATATTTT
AAGGAATAAAGCCGGAGCTCCTGAATTGTAGTCCACCTTAAAGAGAGACCTGTATTGGA
GAATATTTTATTTTTTGGCAAATTTGATCTTACCCTTTACCAGTTCTATAATTTGGTTA
AAAGC
Sequence 150
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTAAGTGGGGGTTTGAACGTGAA
CGTATCTTTCTGGGAGATGCGATTCAAGCCACAAGAGCATTACTTCTACTGTAAGAAG
AAAACAAATCGAGTTAAATCCTATGTATCTTTTGTTCAAACCATGCTGCAGAACTA
AAACTGAACTGCACTATATATATTTCTAGGTGTCTGAAGTTTTGAAAGAGCTTCCCAAAA
CTTTAAGGTAGATCCCTAGTTTCATCATAAATGTAACAAAAGAATTGGCCTAAATGATT
TCAAAGATCTCCACCAGCTCCTGGTTAAAACTGCAAGCTATGATGTTGTGGGCTTGTA
AAAAAACAAAATACACACACACACACACACACACACACACAACTGCAAGCAC
AGTTGGTGTGCACCTGTAATCCAGCTACTTGGGAAGCTGAGGGGAAAGGGTCACTTGG
Sequence 151
CCGCGGTGGCGGCCGAGGTAAGTACTCAGGTGACTTTCTGGTTAAAAATATTGAAGACGGATGA
CAACTGGGCTTTTTTACTTTGACAACTGAGACAAAATGACAAATGTCAGTGTTCAGAG
ATCCAGACCAACTTCTCAAAAAAATATGTTTACCCTGATATCATCATTATTTAGCCCA
ACTGTGCCCTTTTTGGGGGGATCACAACCTACTTGGCTTTTTGTTTTAAAGNTAAAAA
TTTTTGGGCCCTTAAAGCNAGGGGGTTTAGGNNANNATAACNCCCCCTNTNNNNNGANN
GGGGTTNGAAAAACCAACCCCCCTTTTTNGGTCCNCGGGGNGGCCAANNCCCTTTTT
TTTTTNTTAANGGGGTTTTCCCCGGGGGGGGGGGGGGCCTTTTTNTNGNNGNNGNTA
AAAAAAAAAAAA
Sequence 152
CCGCGGTGGCGGCCCGCCCGGGCAGGTACATTATTTTATGATGGACGAAAACGGATGATCTTG
AGCACTATTTTCATGGATGGGAGGAAAAATCCATTTTGGGGATTGCTTACATCGCTGTT
GGATCCATCTCCTTCTTCTGGGAGTTGTACCT
Sequence 153
CCGGGCAGGTACCAATTAGAATGTCTTCAGTTATTAGTAATAGAGCATCCTAAATCAACT
GGCTTAAAAATAAGTTTAGTCTCTCACAAGAAACAGTCCAAAGGAGGAGTGGCTACAA
GGCTGCTTGGTTTGGTGGCTCAAAGACATCATCCAGGTCTCAGGGTCTTTCAGTATTTCT
GCTCAGGCCATGATTAACTATAATCCATTGCTGAAAGATGGTTACCAGGCACCATCC
AGACAAGGTACCT
Sequence 154
CCGCGGTGGCGGCCCGCCCGGGCAGGTACCACGGTTGTAAAGCAATAAGATTGAGATGAA
CACTATTGAACTTCGCTTTTTTGCTAAAAAATAGCAAAGTTGAATAGTAATCAAAAAACAT
AGAAAGATTTTAGTTCAAAATGATTGCTCCTTTCTCTACCTGGACTTTTAAAAAATCAAT
TGTCATCTAATATGAGTTTATTTGTCTATAGACACAAGTATCAATGTCTAAAAAATCA
TGACTTTAACTTCCACCGATGAGGCAGGTAGGAGATAAAGATGAATTCTGAACTGTTAC
TAAAGTACGAACCAGCTCGTTATTAGATGCATTGTAGACAACATCGATGATCCTTGTTT
TAACGAGTACCT
Sequence 155
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGCCGGCAGGTACAAAGCTTA
TTCACATTTTACTAAATCCAACACAACNTTCACANATGGNAAAATGATTGCCTCTTCAA
AGCAATGCAGCCTAGTTTTTGGTGGGTCTGGTCACTGCTTAGCTAAGTCTTTGTTGGGC
AGAGTCTGGCTCCACAGTCTCCTTCGATGGGCTCCTTTGATACACGANGCTTTATAACA
TGCCCTTTTTTGA AAAAACCATTNTGATGATCCNGTTNGGGCCCCNCTNTTAAAAAN
GGGAAAAAANTTNGGNTTNNATTNNTTTTTTTGGGNGGCNNGGAAAAATTTTTTTTGG
GNNGGGNNGGGAAAAA AAAAAA AAAAAA AAAAAA AAAAAA AAAAAA AAAAAA AAAAAA
TTNGGGGGGGGTTTTTTTAAAAA AAAAAA AAAAAA AAAAAA AAAAAA AAAAAA AAAAAA
CNNNNA AAAAAA AAAAAA AAAAAA AAAAAA AAAAAA AAAAAA AAAAAA AAAAAA
Sequence 156
CACTACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTAAGTCTCGCGATGCCCCC
GAGTGGCCTCTGCCAGGCTGTCCCGGGCCTCTCGGCTTCCCGGGGACCCAGTGGTGTAGG
CACGGACCATGTTGTAGGCACCATCCCGGAGACGCGCTGGACACAGTATGCCTCATACA

Table 1

GCTCATCGATCTTGCTGGCATGGAAGCTCCAGTCGTCGCAGGAAGCGTTCAATGGACTTGA
CTTGCTTGCTCCAGATCATAAGGAGCCCAAGCGGGAATTCCTCTTGACTCCCTTATCT
GCCCCCTGGAGTTTCTCTTGCTCCTGCTGGTGCATTCGAAGTAGGCCGTCAGGCCCCGCT
TCAGCGCCCCGTGTACCTGCCCC
Sequence 157
CCGCGGTGGCGGCCGCCCGGGCAGGTGGCGGAGAAGTTTGACCACCTAGAGGAGCACCTG
GAGAAGTTCTGAGGAGAACATTGGCAGCTCGGCATCATCGTCAGTGACTTCAGCCCAGC
AGCCAGGCCGGGCTCAACCAAAAGCTGAATTTTATTGTTACTGGCTTACAGGATATTGAC
AAGTGCAGACAGCAGCTTCATGATATTACTGTACCT
Sequence 158
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATNNAATNATACGT
TTTAATAAAATACATCTTTAGATCAAAGCTGAAAGAAGACATCAGTAGTAGATCAGAGNA
TTCCATTT
Sequence 159
ACACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTGGGTCTGAAAG
TCGATGAAGGACGCGATTACCTGCGATAAGCTTCGTGGAGTTGGAATAAACTATGATAC
GGAGATTTCCGAATGGGGTAACCTAAGTGAAGCAAACTCAGTTGCATTTTGATGAATCCA
TAGTCAAATTAGCGAGACACNGTTGCGAATTGAAACATNTAGTAGCACCGGGAAAAA
AAAAA
Sequence 160
CCGCGGTGGCGGCCGCCCGGGCAGGTACTATCATTGTCACACAGCAGATCAATAGGTGTC
AGTCACCAAGCTTAAGTTACACTTGTCAATATTCAAACTTGAATAAAATAAACACACATCA
CAACAGCGACACTTTGCACTATCAACAATGAAGCTTGCCCTCAACAATTATGACGTTACT
GGTTTTAGTAACATAAAATACATTGCTGGTTGACAGGAAGGATAAAATGACATCAAGA
ATCTCAAAAAGTTATGTTGAGGTGCCGCTCACCACATTTAGGCACTCAGGAATTAATAA
CA
Sequence 161
CACTACTTAGGGCGAATTGGAGCTCACCAGCGGTGGCGGCCGAGGTACATACATTCTTAG
GGACACAGNATACTGACCACATNACCACCCTNTTCTTCCAGTGCTGNGNGGACCATCTGG
CTGCCTTTTTTCTCCAAAAGATGCAATATTCAGACTGACTGACCCCTGCCTTATTTCA
CCAAAGACACGATGCATAGTCACCCCGGCCTTGTCTTCTCCAATGGCCGCGATACACTAGT
GATCATGTTTCAGCCCTGCTTNCACCTGCATAGAATCTTTCTTCTCAGACAGGGACAGTG
CGGCCTCAACATCTCCTGGAGTCTAGAAGCTGTTTCTTCTCCCTCCTTCTCCTCTTGC
TCTAGCCTTAATACTGGCCTTTTCCCTCCCTGCCCAAGTG
Sequence 162
CTTAGGGCAATTGGAGCTCACCAGCGGTGGCGGCCGAGGTACATCGTCTTCTGCTTCTCCTC
TGGGCGCCATCTGCACTCGAGAGGCCCTTCGCTATGACTTCTGATAGCGGAAAAGGTAT
CCCTCATGGGCTTCTGCTTCTTGGGCTTATACATCTCGTCCCTGGCTTCTGCTGATG
GAGGACTTTATGGAGCTCCCCGCATCCTGCAGTGCAATTGCCAGGAGAAAGTGATCCCTG
CACTTGCCTGTCTGGGACAAGGGAAGGGGCCAAACAAAACACCCGTGGCTGCCATCTGCC
TGACCAGCTTGGTGACCATGGCCTTTGTTTTTGGGTCAAGTGAAACGTTCTGGCCCCC
ATCGTCACCATCAACTTCATGCTGACAATACGTTGCAGTGGACTACTCTTACTTCTCCCT
GTCCATGTGTTCTGACGCTGACCCCGGTGCCTGAGCCGGTGCTCAGGGAGGGCG
Sequence 163
CCGCGGTGGCGGCCGAGGTACCACAGTCTTGCACATAAGTGCAGATTGGCTCAAGTAA
GAGAATTTCTCAACACTAATTCAGTGGGATAATCAGCAGCGTAACCTAACCTAAAAGCA
TATCACTAGCCAAAGAGGGAAATATCTGTTCTTCTACTGTGCCTATATTAAGACTAGTA
CCTGCCCC
Sequence 164
ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCACCTACAAGCTAGAGTGG
TAAATTTTCAGGAAAGCAGAAGTTAAAGGCCAAAATTGTAAATCAGTCGAGATCGGGTGCCT
TCAGGGTGGTATGGCTGTATACCAAAATTGTAAATCACTACATGAAGCTTATATATTGGT
TTGGCCTGAAAGGTGAAGTGGGGTAGGCAGGGGGCGGGCTTACAGGTTATGGNGGATTCA
AAGACTCCCTGATTTGTGATTGGNTAAGGAAGCAAAGCTTGTCTAAAACTTGGGGTCC
GCANAAAGGAACATTAAGGTCTGGCCA
Sequence 165

Table 1

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATAAATATGGA
AGAGCAGTTTGTAAATATGAATACATTTCTCTAGACGAGATCACAGTTTATTTTGTA
TATTACATTTAAGTATATATACACATATATGTACCT
Sequence 166
TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAAACCTCAGGG
TTATTTACGAAGCCAAAGGACTTTGCTATATCAAGTAGTTTCATTTCTTATCTAAGACCAA
CTATAGGTATGATGCTACTGTATTCAGGCAATGCCGACTGGATTGGAACATGCTAATTTA
AGGTGAGTTGGTACCT
Sequence 167
TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAGTTTTTGCTCA
AAATATATGAAAGGAAAGATAATCAGTTCTTAAAGTTTGGTATGCTAAATAAGCACCCAG
GGAACCTTACCTGCTCCACCTCACCCAGAAATTGATTATTCAGGTCTGGAATATGGCTCA
AGGATTCTTAATTTCAACCAACACAATATAGAATCCTGTCAGTTATCCTTGGATCATT
GCTAAGTGATCTTGCAAAATCAAACTCCTTTGAGACTATTTTATTTTCAGAAATATTTT
AAAACCTGTTTCAGAAACATCTTAAACCTTGTAGCTTATAGGAAAAAGTNCNTNNGCCGT
TTNANACNNAGNNGGANTCCCCGGCCTGNAGGATTTTANTTNAGNTTATGANTNCGGC
CACCTNGNGGGGGGGCC
Sequence 168
TACTTAGGGCGAATTGGAGCTCNC CGCGGTGGCGGCCGCCCGGGCAGGTACACCCATCAA
GCCACCAGCCTGGCCAAACGGGCATCTTTCTGTCCAGAGCTCATCAATAGGAACCTGGGCA
ACCAGGTGGGGAGCCGCGCAGGGGAGCTTGGAGAGGGCAGAGTAGGAGCCTCCATGAACCA
AGTCAGGCTGGAAGGGGTCAGCCCTCGTGGTCCGTCAGCGTGCGGCGGAGTCCCTGTGCC
TAAGTAGCAGAGCGGTAGTCATTGAAACAGGCCGGGATGCCAGCAAGAGGGAGGCGAGCA
TGCAGTGAGCGATAGGTACCT
Sequence 169
CCGCGGTGGCGGCCGAGGTACCTTGAAGCAATATACTCAATGAGCTCTAAATCTCACATT
CACTAGTGATCTGCAAGTGAAGCTGAATAATATATTCTCTTTGTTCAAGTCATGGAACT
CAACATTAGAAATGACATGTGGGAATAGATCACCTTCTCTAGACTAATATCCCATTTC
TGACAGTGGTCTCCATGGCCCATTTGGGGCTTATAAAGTAGCTGCCTTCTGTGACATTCTG
CTTGAAGACAAAGCCTTTGCCCAAACATAACTCCTTTTAAAAAAGCACAACTTGTITAGG
CACACAGAGGTTAAGTGACTTACACAAATCCACCCAGGATTGGTATTGGCACC GGCTA
ATCTACTGAAAAATATAAGGCCAGGCAATTATATAGATATCTTTTAAACAAGTTAGTAAAA
TAGTGGGGACTTTTCTGGCTAAAAATTGGTAATTAATGGGNATGGTTACCTCTGTTAT
AACTAAACAAACAA
Sequence 170
TATAGGGCGAATTGGAGCTCNC CGCGGTGGCGGCCGAGGTACGAACCATGCTCGTTATTA
GATGCATTGTAGACAACATCGATGATCCTTGTTTTACGAGTACCTGCCCG
Sequence 171
TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATTAAATAATAACAGAAAC
CAAGAGTTTGTCTTAGTAGTAGAAGTATAAGTGGAGAGAGTGCTACATCAGAGAGTGAA
TTTACCTTAGGGGGTGACGACAGTGGTGTGTCAATGAACCCAGCTAGGAGTGCACTTGCA
CTGTTGGCCATGGCCCAATCTGGGGATGCAGTCAGTGTCAAGATTGAAGAAGAAAACCAA
GATTTAATGCATTTTAACTTCAAAAGAAAAGAGCTAAAGGAAAAGGGCAAGTTAAAGAG
GAAGACAACAGTAATCAGAAACAGCTGAAAAGACCTGCCCAAGGCAACGCCAGAAATCCA
AGGGGAACAGATATTTACTTACCGTATACTCCTCCTTCCTCAGAAAGCTGCCATGATGGT
TATCAGCATCAAGAAAAAATGAGACA
Sequence 172
CCGCGGTGGCGGCCGAGGTACCAACTCACCTTAAATTAGCATGTTCCAATCCAGTCGGCA
TTGCCTGAATACAGTAGCATCATACCTATAGTTGGTCTTAGATAAGAAATGAACACTTG
ATATAGCAAAGTCCTTTGGCTTCGTAAATAACCCCTGAGGTTTTGTACCTGCCCG
Sequence 173
CCGCGGTGGCGGCCGAGGTACCAACTCACCTTAAATTAGCATGTTCCAATCCAGTCGGCA
TTGCCTGAATACAGTAGCATCATACCTATAGTTGGTCTTAGATAAGAAATGAACACTTG
ATATAGCAAAGTCCTTTGGCTTCGTAAATAACCCCTGAGGTTTTGTACCTGCCCG
Sequence 174
CCGGGCAGGGTACCAGTGCCCCCTTTTTCAGACAGTTTTTGATTGCTCTAGACTTTTTTTT

Table 1

TTTTAATAGGGAGGGAAAAAATTTGATAATTTCTTTTTCTACATGCACTTAAGACTA
AAACACAGGTTTGGATTAATTTATTTGCTTCCTTTTTCCGCTTTTCTTCCCGCAGAGCC
TGATGGGAGAATGTCCAGGGCAGGGAAACCACATTTTTGTAGGTGATAACTCAATGAAA
ATTGGTGCTTATTTTTACACTTCTCTTGNNGGCTCTCTTNGTGGTGCTATCTGTTTTA
AAGGGCCTCTTGAAGGCGCACTTGGGGTCCCTGGCCATGCCTNGTTCTCCCTGCTTTCTT
TAATCCTGGTATTGCCTCCACAAGGTCTGTTGCCAAGGACTCTTAAAGATCAATGGCAGC
TCACTTTTCCTTTCC

Sequence 175

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTCTTGG
ATGTGTTTTCTCACCAAGATGAGCAAAGAAAGGTTTGCACAGAGGAGTGTGAATGTGTGT
TTGTTGCTGGCTGAATGGCAATAGATGTCTAAGGTGGATTCAAGTGTCTGGCACACTGAGA
CACCTCCAAGAAGGAGATTGATGCATCAGGTTCAAGTTTAACTGGAATATCTGACTACCC
CTGAATCCACCCAGAAAGGGGGCCCAACACCTTGTCCATTTATGGGGTATTTTTTTTCG
AAGTTATTAAGCATATTCTTTTCCACGAACCTCTTCTGTACCTCGGCCGCTCTAGAACT
AGTGGA

Sequence 176

CTATAGGGCGAATTTAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACACGCGTCGCAA
TTCAGGATGGCTCTCTTGGATCTTAGCTTGCAACTCGGCCTCCAAGCTTGTACAGACAT
GGAATTTTTCTGAGGAAACAGGGCACAACACAGGGGTGTAGCAAACACCAAACAGAAAGCC
AACTAACCCCAACTTGAATGGGTGCACTCATCCATGGGAACCTCTTCAAAAAGGCTTTCTT
TTCCAAAGTGTTTATAATGAATGGAGGGATGGCCATGCCAGGGGCTGCCATGAGAATCCT
GGACACGACAACTTGCCTGATGGCTTGTTCGCAAGCGTTCGCCGACTCCCCCAAGCGGT
TCCCATCTCATTTCCCGTGACGGGGAAT

Sequence 177

ACTTAGGGCGAATTGTAGCTCCCCGCGGTGGCGGCCGNGGTTACAAGCTATTATATATTT
TCATAATATAGAACTTTAAAGTATAGTAATCAACAGTGGCAAATATTTCTGTCTCTGAC
ATTATTATTTGTGAGATCCAACCTGTAATTGAGATCAGAGAAAACAGTATGGGAAAACAA
ATCCATGAGAACAGGATAAAAAATATCATGAACAGCAAATATGTCTGAGTATTTAAACT
GTATAGAAAAAATAAATTAGATGAACAATTGTGTAAATATAAATTAAAAAAGATGACATT
CTTAATAAATAAAGTTTACTATTTACATTTTTATATATTGCCAAAAGATT

Sequence 178

CCGCGGTGGCGGCCGNGGTACACGAAGGTTAGAATTTTTGACTCCAGGCAGCAGTTTGCT
CAGTGATCTTGAACAAGTTATCCAATTGCCTCTACATTTGCATCAGTTTCTAGCTGCA
AAATGGGGATAATACTATATACCTACCTACAGNGGGAGGGCAGGAGATTTTGAGGCCCT
GAGGTTTTAGGTGGGCTGTGAGGGCCAACGCTTGACACAAAGTCCAT

Sequence 179

TGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGGTACTTCCTGAGGAGTGAAGCTGTTT
TCTGCTACCCTTTCTGTCTGGTGGCTCANGAAGTTCAGTGTCTCGGTGTCTGATGCAGT
GAATACCTGGGATTACAGTCTGGCATGCTCATTCTTAGAACACAGGTTTATTCTCAGGA
TGATTTATAGCAAGTGATTCTGGTTTCCAGTCTGGTTGAAAAAAGTGAATATTGAATGTC
CGGGCCCAAGTTTTTAAANNACTCTTTTTNTTGGGAAAAAAGCGGGGNAAAAACCGGCC
CTTGGGGCCCCCTTNNNNTANGGGGNGGGGNGNCCCCCCCCCTTTTAAAAAANNANG
GGNCCCCCCCCCGGNNNGGGNGGANAANTTNAAAAAAGNTTTTTCCCCCCCCCCCC
CCGGGGGGGGGGGGGNCCCCCCCCCNCTTTTTTTTTTTTAAAAANNNNGGGGNGC
CCCCCCCCCCCCCANA

Sequence 180

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTGTATAGACT
CAAAACATGATGAAATTCATTTTATTGCTTCACTGAATAGACTTAACCTTGACAGTAA
GCTTAAAGCATTAGTGTCAATTTAATTACATGTCTGAGGAATTTATGCTAACTAGATTTTG
GGCTTTTGCAGCGAATTTTAGTCGGGGCCTCATTCCTGAGCCCAAGTGACCTTTTACCT
CAGCTTCCCAAGTAGCTGGGATTACAGGTGCACACCAACTGTGCTTTGCAGTTTGTGTTG
TGTGTGTGTGTGTGTGTGTGTGTATTTTTGGTTTTTTTTTACAAGCCCAACAT
CATAGCTTTTGGCAGTTTTTAACAGGAGCTGGTGGGAGGATCTTTGAAATCATTTAGGC
CAATCTTTTAGNTACATTTATGATGAAACTANGGGATCTACCTTNAAGGTTTGGGG

Sequence 181

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTCATGG

Table 1

AAAGTATTAAAGATCTTTAAAAAATCGAATGCTGTCATGTCAAAGTGAGGCATGAAAAG
TATTATTAATGTGGCTCCATCGATTTGGGGGTTCCAATCTGAGGAGGGCTTTTATTTAA
TGTTTTAATGAATCAAAATATCTTCTTAGAATGTCTCTGAAAATGGCATCTCATTACCTT

A

Sequence 182

CACTNCTATAGGGCNAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAATAA
AGTTCACCCACCCTGCACTTTGGCCCTTAGATCAATCCTAAGTAGCCATTGCCAGTAGGC
CAAGTTTAATCAGAGGACAGTGCCTACCAGTAAATACTGAATAGTTACAATAGTTATGTC
CATCCAACCAGTAGCAGATGAACAGCTAATACATCATGATGCTATGCTCTCCTAACAGGG
TCCCCTCAGATCCTCAGTGAGCACATAAAGAAAGGGAGGTCATATCCCTTACATTCTCTA
CCAGGGATTAAACACCTAACTACTTCTCTAAGCCAGAGGCAATTCCCTTTATTTCTTACT
CTCGGTCGNNCTTNTTTTTAACCCAAATCTTCTGACCAATAGGGTAAAAACAAA

Sequence 183

TCACTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACACACACCCGGCA
TGTTTATACACAGGGAGTGTATGGTTCTGTGAAGCACTAAGTTAGCTGTTTTCATTTAAT
GACCTGTGGTTTAACCCTTTTGATCACTACCACCATTATCAGCACCAGACTGAGCAGCTA
TATCCTTTTATTAATCATGGTCATTTCATTTCATTCACAAAAATTTTATGATGTTTT
ACTCTGCGCCAGGTCCCATGCCAAGCACTGGGGACACAGTTATGGCAAAGTAGACAAAGC
ATTTGTTTCAATTGGAGCTTAGAGTCCAGGAGGAATACATTAGATAATGACACAATCAAT
ATTAAATTGCAAGGATGTCACACGTGNTGATGAAGGGTAGAGTAGGAGAGACCATGANTA
TTGTGGTAACAGGAGGACCCAGCATTATTCTAGTGCTGTACCTGGCCCGGGCGGCCCGCT
TAAACTAGGNNGGGATCCCCNG

Sequence 184

CACTACTTAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTAACCT
ACCTTTAAGACTGGGATAACTATTGAAACAATAGCTAATACCGGATATAGTTATTTATC
GCATGATGAGTAATAGAAAGGAGCTTCACAGCTTCACTTAAAAATGGGGGTGCGGAACAT
TAGTTAGTTGGTAGGGTAATGGCCTACCAAGACGATGATGTTTAGCCGGGCCGAGAGGCT
GTACCT

Sequence 185

CCGCGGTGGCGGCCGANGGNTCNNTNCTNNTTNTTATTTNTGGGANGNTGNNTNTTT
TTATTCCTAGATNTGGAGGAANCATATTNTNTNTNTTATAAACTGATTGTAATAATT
CTTCCCTATCAAAATCTCCATAGGTCAAAATATTGNNGGAATACTAAATTTGCAACCTT
GTTTACTTTAAAGGTTGCCACTTTTCAGTGCAGAACTACTACCGGCATCTGTTACTGCAA
TAGTTGAAATAAAATGTGAAAATTAGCAGAAAAAATAAAAAAAAAAAAAAAAAAACCTT

Sequence 186

TCACTACTTAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTCTGATAAAGTTCT
TGAGATCCTGTATGTTCTTCAAGACCTTTATCAGAGTTTATGTGAATGCGGCTATTTTCT
GTTTTAGGACAAACAGGACTAAAAGTTCAAGGGAATATGCTTGGTTTTGCCACTTTCA
TATGCTTCTGTAAAACCATCAAGCTGAATCGAATTCTCTTCAGGTATTCTTATCTCCCCG
TAACTTGCCTTTGGTTCACTCTCCATGTTTACATTCCCTTTATTTACAGGACTCCGCCTT
TTATCTTTCTTTTGAGCTAAAAAGCAACCTGGCTGGGAGGTAATTATACTGAGAAATTC
TGTATCAGTTGATATTTAAGGTCTGAGACCTTCTAAGTCTGCTTCAGACCTTGACTT
ATCTACCTGCGT

Sequence 187

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTACATGGGTGTTTTGATCTCT
GTTCTTTTCACTACATTTGAACAGGGCAAAATGAACCTAAGTCCATGTAGGCTAAGAAA
GAAATGCTAACCTGTGGAAAGTTGGTTTTGTAAATTCATGGATCTTGCTGGAGAAGCA
TCCAAGGAATTCATGCTTGATTGACCACGGACAGCCTCCACCTTGAGCACTATTCTAA
GGAGCAAATACCTTAGCTCCCTTGAGCTGGTTTTCTCTGATGGCACTTTTGAGCTNCTAA
GCTGCCAGCCTTCCCTTCTTTTCTGGGNGCTCAGGGCATGCTTATTANCAGCTGGGTTGG
TATTGGAGTTGGCAGACAGGGATGTTCAACTTAATGAAAAATACAGNTTAAGGGNCNTT
GCCACAACACCCTGCCGTAAGTTACTTGGCTTGNGGGGNGGGGCATNTTAAAGTTAAAGG
GNACNNGGNTTTAATNCCCTATCCCTTTTTTC

Sequence 188

CCGCGGTGGCGGCCGAGGTACATTTCTAAATAAATATCTTTGATCTATAACCCTTGAAAA

Table 1

TATTACAGTTTATGGTGACATGATAGAGACAAGTCAAACAGTATTATAAGTGAAAATGAA
ACATCAATTTAAATGAACAAGTGTAACAAACACGCGGAAGTGAATATAGAAAATCAAA
ACACTAAATACACAGTAATTAATATCTAGCACTGGAATCACCAAATGCATGCCGCAGTA
ACACACTTTCAACTGATATAAAAAGCCCTTTAAGATTACATAATCTAAATAAATAAGCA
GAAACACAAAGGGGAGGTACCTGCCCG

Sequence 189

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGGAGGGAACTGTTGCA
AAGCCATTTTCATCGAGAAGGGGACAGAAGGAGAAATACACACATGTATACACAAACAGAA
TGGTTGAGAAAACGTTTAAATAAAATGTGAGGGTTGTATGTGTGCGTGTATATTTTACA
CTTAACCTCTAAATTTCTCTTCTACAGTATCTCTGTTATGAATATGATGGAAAAGCAACA
TTTTGGTGGTGAGACTATTGTTAAATAAAATTTGAGAAAGACGAAAATTTGTGAGTCTT
GATAATT

Sequence 190

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTTTTTTGTTCAATACATTTTA
GATTACGGATTGACAAAGTAAAGATACTGCTATGGAATGATACATTGTATTTTCTGCATT
GTGTGAAATAGTTTTATTGAAAGNCAAGTGACATTTCAAAGAAGNTCTATAACAATTA
TGTTTCATGCTTAAAGTAAAAATTTCCAGAGTTTGTAGTTTAGAAAATGTAATCTTTTAAAT
TTCAGACTGATATATTCCAGTATTTTCATAATGCCATGTTTTGATAAAGTACCTGCCCG
GGCGGCCGCTCTAGAACTAG

Sequence 191

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGTTCTTATAAAAGATTCT
TTCTCCCAAGATTATCTCTCAGAGCAACAGCAAGGTTCTCAGGATCGAAGCCTACTC
TAGCCTGAAGGGCTAGGAAGATTAGGATAAGGATAAGGATAAATCCAAAAGTCTCGAC
AATTCAGTAGTCTCTGGATGGCTCCAACATCATAGAAATTTAACACTGTTCCACTTGT
TACAAAATCTAACACTGGCTTAGACATTCTGGACTTTTCAGTGAGGGTTCCAGCATCTGAT
GTCCCTCAACTCCTTTCCAGGGTGAGAGGCCACTTACAGGAACTTAACTTCTCACCAT
GTGGACCCATGGAGGGGTTTTCTCTTGAGAGGGCTAAAAAGTGAGGAGGCTATGGA
AAAAATGGTGGGTCACTTTTAAGGCAGACTGTTNGGGTTGGGTGGGAATTTT

Sequence 192

CCGCGGTGGCGGCCCGCCCGGGCAGGTACGATTCACTAGGGCATCCTGCGAGCCTCACTAG
CCTTCTGGTTTCATGCCCTTTGACAAGCATTTTTGTGCCCTCTGCTTACTGTGACAGTCG
ATGATGAATCTTGCGTTGCCATTTTCTGCTGTGGGTAAGTGCCTGCAGNGTCTTGCTTG
CTTCTCTTNTTACTGTCCCACAGCTTGGTTTCATGTTACAAACAGAAAAGCTCGAGGCT
CCCACCCCGCCACATCCCAACTTCATTTCCCCCTCACTGTAGCCCATTTCCACCCACCA
CAAAGTTGCCACAGGTTTTCTTTGTATAGAATATGTTATTTGAAGCTCTATTTTAATAG
TATTTATTTTAGAAAGTCTACTATTGNAAGAGTCTTCTGGTTTGGGAAGAAAAAACA
AGGTAAAACTGGAA

Sequence 193

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTCCATAAGCTTGGATTTTAA
ACACTGATAGTATCTCATGAGTAATGTGTGTTTTGGGAGAGGGAGGGATGCTGATTGATA
TTTCACATTGTATGAAATACCATGTTTGAAGTCAATAGCAATAATGCTATGCTGTTGTGA
TCCCTCTCAAGTTCTGCATTTAAATATATTTTTCTTTATAGGAATTGATGTATACCAT
GAAAGTCATTGTCAAGTTGTAGTAGGCTCTGATGTTGAATGAGATATCATGGTTTAAGCAT
TNCCATTTTACTGGCCTAGGGGAANAANACCACTTTTTCTTGGCTTNCATTTGGGANGGA
TCCCCCAGGGGNGTNTTTGGGGTGGTCCCTTTTTNTNGGGGAAGCCAACCATTTCCAC
TAGGCCTCTTTTTTTTNAANCCTTTNAAAAATGGGGAA

Sequence 194

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGACCGTGAAANGCTGTAG
TTTGCAACCCTGCGAGTATGTCTGGATCACAGGAGAATGGTCAGAGTGCTCAGTGACCTG
TGGAAAAGGCTACAAACAAAGGCTTGCTCGTGACGAGATTACACCGGGAAGGAGAA
TTATGAATACAGCTACCAAACCAACATCAACTGCCAGGCACGCAGCCCCCAGTGTTCA
CCCCGTGTACCTGAGGGACTGCCCTGTCTCGGCCACCTGGAGAGTTGGCAACTGGGGGAG
CTGCTCAGTGTCTTGTGGTGTGGAGTGATGCAAGAGATCTGTGCAATGTTTAACCAATG
AGGACCAACCCAGCCACTTATGCCACACTGATCTGAAGCCAGAAG

Sequence 195

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAGTTGGGGTCATAATT

Table 1

ATCGAGTCTCTTGATATTATCACAATTACTGTGCCCCCTGCACCTTCCTGCTGCAATGACT
GCTGGTATTGTGTATGCTCAGAGAAGACTGAAAAAATCGGTATTTTCTGTATCAGTCCT
CAAAGAATAAATATTTGTGGACAGCTCAATCTTGTGTTGCTTTGACAAGACTGGAACCTA
ACTGAAGATGGTTTAGATCTTTGGGGATTCAACGAGTGGAAAAATGCACGATTCTTTCA
CCAGAAGAAAATGTGTGCAATGAAGATGTTGGTAAATC

Sequence 196

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGTGCTGCACAGATTGATA
CATTAGCCTTTGCTTTTCTCTTCCGGATAACCTTGTAACATATTGAAACCTTTTAAAG
ATGCCAAGAATGCATTATTCACAAAAAACAGCAGACCAACATATAGAGTGTTTAAAT
AGCATTTCTGGGCAAATTCAAACTCTTGTGGTTCTAGGACTCACATCTGTTTCAGTTTTT
CCTCAGTTGTATATTGACCAGTGTCTTTATTGCAAAAACATATACCCGATTAAAGCAGT
GTCAGCGTATTTTTCTTCTCATCCTGGGAGCGTATTCAAGATCTTCCCAATACAAGGAA
AATTAATAAAAAATTTATATATAGGCAGCAGCAAAAGAGCCATGTTCAAAATAGTCATTA
TGGGCTCAAAATAGAAAAGAGCTTTTTAAGTTTTAAATCCAGTTAATCTGGT

Sequence 197

TCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAATTGTTCTACTGT
TTTAAAAAGTTTTCCGCAGAACAGTGCAATTTATGGCAATGCTATGTTTAAATGAGTTAGGG
ACATCAAATATATAGTAGTTCCTTATTTTCAGTTGTGAAAATGAAATGGCTAAAGCAGAA
GAGACGTCTATTTTAGTCTTTTAAAAATGTGTGTGGGTGGTCTTTTTTCTCAGAAAGCCC
AAAGCACATGTATATTTGTTATTTCTCCTTGCTATATTCCTGAGACTATACTAAAACT
TTAAGAAAAGGAAACAAGAAAAAGGTAAATTCATGTGTTCCCACTGCTGTGTCTAGAACC
AAGATCACATTATATCATTGTTAAATTTGTGTTATCTAGGAAAGGTGCAATATAGGGAAA
ACACTCTAAGAATCTTTTAAAAACCTAAGGGTTTCCCTTATTTTGTGAGAATATGTNGGG
AAGTGGCCATCCCATAGGAATCTTTTTAACC

Sequence 198

CCGCGGTGGCGGCCCGCCCGGGCAGGTACCTAACCTACCTTTAAGACTGGGATAACTATTG
GAAACAATAGCTAATACCGATATAGTTATTTATCGCATGATGAGTAATAGAAAGGAGCT
TCACAGCTTCACTTAAAAATGGGGGTGCGGAACATTAGTTAGTTGGTAGGGTAATGGCCT
ACCAAGACGATGATGTTTAGCCGGGCCGAGAGGCTGTACCT

Sequence 199

CTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACTGATGAACA
CCAACATGTTCCAGAAGACCCAAAGAGAAAAATCACAAGATGAAGTCTTGAGAGATGACCC
TCCAAAAAAGAACATCTACGGGATACAAAGTCTACATTTGCTGGCAGTCCAGAGCGTGA
GTCCATTACATCCTGAGTGTGATGAGAAGAACAAGTTGGGAGCCAAGATTATCAAAGC
AGAGATGATGGGGAATATGGAATTAGCTGAACAACCTAAAGTTCAACTTGAAGGCAAA
TAAATTCAAAGAACTATAACACAGATACCAAAAAAATCTGGGGTAGAGAATGAAGACCA
GC

Sequence 200

CCGCGGTGGCGGCCCGAGGACCTGTGTTNAAAAGATGAAAGAAATGGNTGCTGAACCCAAA
ACATGTTTAGGAGGAAAACCAGAAGACAGAGCAGTGGCACTGGACCTCCTGTCTGTCCG
TGAGGCTGCAGAACACAAGGCAGCTCCCAATGCCGCTGGACTCTCTGACCTTGGAGAGNG
TAAACATCATATATGATTCTGTGTTCTGAGATCTGGGTTTAAACGATCTGGGCTTTGTCA
TGGTGT

Sequence 201

CACTACTATAGGGCGNATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACAACCTCTCGGC
CCGGCTAAACATCATCGTCTTGGTAGGCCATTACCCTACCAACTAACTAATGTTCCGCAC
CCCCATTTTAAAGTGAAGCTGTGAAGCTCCTTTCTATTACTCATCATGCGATAAATACT
ATATCCCGTATTAGCTATTGTTTCCAATAGTTATCCAGTCTTAAAGGTAGGTTAGGTAC
CTGCCCC

Sequence 202

CTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACAGAATCCAAAAG
TCATAAAAAGCAAAAGCTATCTTTTTTCACTCTGGCACCCATCTGTTCTTCCCTGGAGT
CAAACACTATTACCAATTTTGGGTATACTTCCAAAGATACTTACTGCATTTACAGCAC
AGACTTATATTGATTCTAAAAGAATAAGAGACATTTTCAGCATGTTGTTTGTTCACAC
CAGAGTATCTTAAAGATGGTCCCCATCAATACATATAGAGATCTCTTTTTTATGG
CTTCATAGTATTATCATGTGCTGATATGCCAAAACTAATCCATTAGACCCTTTGGGTA

Table 1

TATATTTACTATTTTGCAGTCTTCTGCTCTTAGGAATAAAGTGAAATTCAATCACCTGTA
TAGAAAGTATTTACACATGTTTGAATATATATGTAGAATAAATTCCCAA

Sequence 203

CCTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAAGCTATAAA
GGAACGTTTTTAGAGAAAGCACTGAAGACACACATTTTGTGACCTAAAAGATTTTAAAA
TGAATTAGAATAATTTACATCATATAAAGAGGTATTTAGTCTTTAAGTGGAGAAAGTTGC
TAGTCACATGTAAGAAAAACAAGTATTATGGGCCCTTCTAAGACAAATGGAATAAATTCC
ATCACTTTTGGCTTTTTTATAAACAGACTTCTAACAAATAACCATATTAATTTTCCAGT
AATCAAACATATCCTAAAAGAGGAAAAAGAGAATGTCTACTTTTAAATCACATCCAATGT
GAATTTGCGTGAATGCAAGGCATAAAATACCT

Sequence 204

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAGGGCAG
GATGGCAGGCACAGAGCCGCCAGCTCTTCCCCGCCCACTCTCGGTGAAGCAGTGCAGCT
TGCCCGCCAAGTAGAACGTCGTGAAGCCAAGGCCCGAAAAGGCAAGGAGGAATGGATGC
TGGGGAAGCTTTTGC GGCCCTCGGACACCAGATCGGGGTCACTGTGCAATGCATTTCCG
AGTTCATCACTCCATCTTCCCACTATTAATTAAGTGTGTTGTGCAGACTCCATTCAAA
GCAAGAGCCAAGGACACCGCTAAGAAGGCTTCTTAATTTTCACTTTGTCTGTTCCGCCG
ATAATTTTACCACACAAATAACAGCCAGGGGTGTGAGGAAAGAAATTGCAAACATGAGG
CNGGGTAGGGTATG

Sequence 205

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCATATCTC
CTGGCTTCTTCTACATGGGTCACTTAGTTAAGAGGGAGGCCAAGGGAGTTCCGATTTCA
GGCAGTGTGTGGCAGGGTTACTGTCTAGCAACCTGGCTACTCTCACTGTGAACGTTTC
TCATAGGTGTCTATGGCAGGATGAAAAACATATTTGCCTCCCAAGTGAAGAGTGGCACAG
GCTTTTGGCCAGCCAGGTTGGCAAGAGAACAGAACTTTAACCCCTTGCTCGACAGGTTT
GAGTTCAAGGGGTTGGATGCTCCAAGCAGAGGGCCAAACCCCTGATTTATGAAGCATGCTA
GGTCAACAGCCAGTCAGACCT

Sequence 206

ATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGGTACAGTGCCCCCTG
CTTGTGGTGCAGGGGGGTGCCATTGCCGTGGTGTGTAATCGGTCACTATTTACTGTGTGAGTTC
CATTGCACGGGACACCAGGTCACTCAATTCGGCGATGCTGCCTACGCGCGTGGCCAGCAA
AGACTGCTCGATGGTCTCAGTCCGACTGGCTGAACATGGGCAGTTCCCCTGGACCT

Sequence 207

AGGGCTAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAAGCTAAAGAAGG
CAGGAGAGAAAGTTTTTGAAGATGGTGTGTGTAATCGGTCACTATTTACTGTGTGAGTTC
CACTGGAGACAAGCACACTTTCTCCAATCCAGAGTCTACACCTGACTGGGAATTTTCA
TTCTGGATTCTGATTGAGGGAAAATACTGATATCCAATGGGCTATAAGGAGGACCTTTCA
GTTTCTGTAACAGCATCTGAGTTCTATGCATGTCTGGAAAGGCACCTGCCCACTGGCTA
ATTCACATGCTGTAATCCCAACACTGTAAATATCTGACTTCACATTATACCCACGTAAAT
CCTGTCTCAGTAGTTCTGGACTCAGCCACGGCTGCACTGATGTGCTGAAGTGTGG

Sequence 208

CCGCGGTGGCGGCCGCCCGGGCAGGTACCAAGCTAAAGAAGGCAGGAGAGAAAGTTTTTG
AGGATGGTGTGTGTAATCGGTCACTATTTACTGTGTGAGTTCCACTGGAGACAAGCACAC
TTTCTCCAATCCAGAGTCTACACCTGACTGGGAATTTTCACTTCTGGATTCTGATTGAG
GGAAAATACTGATATCCAATGGGCTATAAGGAGGACCTTTCACTTTCTGTAACAGCATCT
GAGTTCTATGCATGTCTGGAAAGGCACCTGCCCACTGGCTAATTCACATGCTGTAATCC
CAACACTGTAAATATCTGACTTCACATTATACCC

Sequence 209

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTTTTTACTAAATTATCT
ATGTCAAAATAAATTCTGTGCCTGGCGTGGAATTTCACTCCATCAAGTGTTACAATGATTT
TTTCATTTTCAATTACAAGCAGGAGAATGAATGTAGGACAAGTGTTAGGAAACATGGCAAT
AAATTAGAATATAATTTACAAAAGCAAAAAATTAACAGTGTACCTGCCCC

Sequence 210

CTATAGGGCNATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACATAGTCTCCCACTGTACA
TGTCTGGCTGTTAATCATCTTGGCCCTTGAGGCACATCACAGTTTGAAGGACCTGTTT
AAGTTGAAATAGACTTTGCTTATTTATTGGGATTCTAAAAAATTCTGAGTGAGTTTGCAG

Table 1

TATGAGAGGAAATAAGATTTCTCCTCCTTCTCTCATTTTATATTGACTGTTTGCCAGA
AACTGTTTTCTTCTGTTTTCTTATATTTTGTGATGGAGTCTCACTCTCTCACCC
AGGCTTGGAGTGCAAGTGGTGCAATCTCAAGCTCACTGCAACCTCTGCCTCTGGGTTCA
AGTGATTCTCCTGCCTNGGCCTCTGAGTAGCTGGGAATTACAGGCCCGGGCCACTACCN
CCCGGCTACTTTTTGGATTTTGGTTTTTAAGAAAAACCG

Sequence 211

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTNTTNNCTTAAATTGCT
TTNTAGNTCTAAGATTGTANAATGANCTNNCAAATTGGACTCTTTTCTAACAGAGNTAT
TTTAATATACTTGNTTTTNTAAAAAACAAAAAACTACTGTCAGTATTAATACTGAGCCA
GACTGNCNTCTACAGATTNAGATCTATNATTTTATTGATTCTTAAGCTTGTATTAATA
CTAGGCAATATCATNATGGATACATAGGAGAAGACNCATTTACAATCATTATTGGG

Sequence 212

AGGTACTGGATGTTAGAACGGGCTCCAGGAGCCAGGAATCCTGGCTCTGCACTGTTGGAA
ACATCTAAGCTAGTCTTGCGCCCATTTACTGGCTTGACAGGGATGCCTGAGGACTTCTGG
ATCTTGCTGAGAGTGGCTGAACCACAGTTTGCATGACAGTGGCTGTGCCTGTGGCAGGA
GGAGGCTTCTTGTAGCCAAAGGATCCCGAAGTGGAGGGGCGAGCAATGCCCGAGGGGGGC

Sequence 213

CCGCGGTGGCGGCCGAGGTAAGTCTGACATATAAAACCAGCTTACAACTACA
TCGCACTATATGAAGAAATTACTGCGGGGCAATCACCAGTAGGGAGCACAATACAC
AGGGTGTGGATGTTAATGTCTTCCCTAGCCTTCTCATTCCCTTCTCTTGGTCTTTATG
CATATGGAACAGTTCATTATTAATTTTGAATAATACTGAGAACCCTGACTCCAGCA
AGGGAGTAGTTCAAGAAAGTTGAGGGGAGTTTAAATCTGAATGAGTAAATAAGCAATTAT
ATCATTAGCTTAAATTTTATCATCAATTAATAAAATTTAAAAACAAACTTTAAAAA
AAAAAAAACC

Sequence 214

CCGCGGTGGCGGCCGCCGCGGCGAGGTACAAGTCTCATAAACTATCTCAGCACTGCATCCG
TATTTGTGGGCACCTGTGCCAAAAGCACCTTGATATGTTTCTTAGTGTAATTGGCCAGAG
ATGGCCAATAGATGTCTTCTCAAGTGTCTTGTATCACCAGGTCAGTGCTATTGGGAGTGA
TATAATATGGGTGGTTCCTAAAGTTATTTTGGTCTCTTTTTTTTTTTTTTAAAGTCT
ATGATAGATTAACAACACCTGCCTTGATGCAGGAATTAGGTGGGGCTGCACACGTGCAT
GGTATTTTCTATCCCTATGCTAGGTTTTGNTTCTGTTGGGCTGTCTTCACTAGACTTGAG
ATGACTTGATTTAC

Sequence 215

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGTAAAGTAAAAGGGATGT
GCANAAAAATAAAAAAAACAACAAAANAAGCTAACCTTCTATTAGAAAAGGGGACAGGG
GAATGAGTAAACTTCTTTTATTGCGGACAAATGTGCACATAGCCGCTAGTAAACTAGCC
TCAAACAGGATGCTCATAGCTTAATAATAAAAGCTGTGCAAAG

Sequence 216

ACGACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGGCCGCGGCGAGGTACATA
CAGATCTTTTACTGCCTTGGTGTTAAATTTATTCCTAAGTAAGTATTTTTTTATGCTAT
CATAAATGGCATCTTAATTTTTCAGTTAGGTCATTATTTTCATTATTTATGTATAAAAT
GCTAATGCTTTTTGTATGTTGATTTTGTATTCTGCAACTTTACTGAATTCAGTTGAGTTC
TAACAAACAGATTTTTTTTGTGTGTGTATCTTTGGGGTTTTTACATAGAGCCAGTTTTTA
GTTTTAATAGAAATGTTTATAATAGTGGATGGAATAAAGACC!TTGTATGATTACTGTGA
ACCACTATCTCTCTATATATATAGATAGATATGAATGAGTATGTGTATAAATCATAAA
GCAAAGGCTTTGAGAAACCAAACTCATCTTTGCTTTCTGTACATACTGTGGCCTTTCTGG
TTTATT

Sequence 217

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGGCCGCGGCGAGGTACAAAATAACATC
ATAAATAACATAAATGAGAAGTTTTCAAGTATTTCAATGTGCCCTGAAAAGTTTCAAACA
GTAATTCACAAATTGGTTAGACAATCATTTTTTTTCTTTTCTTTTCTCTCATTTAGT
CTCAGAGCCTAAAAAGAAATGCCTCCAGTCTCTGTTAGCCCCGATGTTTGAATGAAATT
AACAGATTCTACCTTAAAGAGAAAACTTATGTGGGCTTTTCAAATTGTGAAAATTTGT
TCCCTCTTATAAAATATAATCTTTCCCTGCTGCTGGTTTATAAATATGGGCATATAGCC
CAGAGCCATTATAAAGAAAAACAACCAACCACAATAAATAAGGAGCCTCATCTGATGG

Table 1

CTAAGGGTTCTCAGGAAAAAATGAGAAGAGCCCTTTGATCAGGAAAGGAAAAAAGGATAG
AGGATAAAACAGTAACCTTTTA

Sequence 218

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATCTGAGACTC
AAGACTCTCACTGATTGGAGAGCTTGTGGAAAACAAAACACACCATGCCAATAAATGAGA
TGAAAACCTTGAGTTTGCCCTTTTAACTATTTATGTTCTAAGTTAAGCTTTGATAACATTC
AAATGTCAAATTCTCTCATTCTTATAAAAAAGTTGAATTAATTGCCTGTATTTATTTAGC
AATTATTCAATGTATTTCCAGTATAGGATGTATAGTATAATTAATTTTTTGAAATAAAA
TATTTTACCT

Sequence 219

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTANTCTTGTTTCTATGAA
GGAAAAGTTTGGCTACTAACAGTAGCATTGTGATGGCCAGTATATCCAGTCCATGGATAA
AGAAAATGCATCTGCATCTCCTGCCCCTCTCCTTCTAAGCAAAAGGAAATAACATCCT
GTGCCAAAGGTATTGGTCATTTAGAATGTCGGNAGCCATCCATCAGTGCTTTTAGCTATT
ATGAGTGTAGGAACTGAGCCATCCGTGGGTGTCAGGATGCAATTATTTA

Sequence 220

CTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTGCCAGATCTGT
ATCACTCCGGAGCAACGACCTGTCTCTCTGAATGATCTCTGGCATGGTAAAAGAGTTAAC
TGATTTTCAAAAAGGTGAAACAAAACCTTTTTTGTCTTTGTTATGCATGTTTCAAATTGATC
AATGGTTCCAGGCTGGAGTATGCATCAGAATTATCTGTGAAGCTTAGTGAAGAGTCTGAT
GCCAGAGCCCCACCCAAAGCTTACTGCTTCANAACCACTGGGGACCTGGGCAGTTCTGATG
TGCACGACTAGTCAAGAATCCTTTAAAGGCTGATAAAGCAATCTTGAAATCACTGTCAAT
GCAAAAGTGGGATGTTCCCTTATTAATAAGAACTCAAAAAATAAAGTACCTCGNCCCGCTC
TAGAACTAGGTGGATCCCCCGGGCTGCANGAATTCGGATATCAAGCTTATCGATACCC
GGCCGACCTTTGAGGGGGGGCCCGG

Sequence 221

CCGCGGTGGCGGCCGAGGTACGCGTTTCTTGTAACACGAGGCACCCCAAGATAAGAAGA
CAGATAGAGCAAGGGATGGACATGGTCATCTCCTCAGTGATTGGAGAAAGTTACCGGCTT
CAGTTTGATTTTCAAGAGGCAGTGAAGAATTTCTTCCCCCAGGAAATGAAGTGGTTAAT
GGAGAAAATTTAAGCTTTGCATATGAATCAAAGCTGATGCATTATTTGATTTCTTCTAT
TGTTTTGGGCTCAGTAATTCGTTGTAAAGTAAATGGAAAAGTTCTGAATTTGTCAAGT
ACCTGCCCG

Sequence 222

AGGTACTTACATGGGTGTTTTGATCTCTGTTCTTTTCACTACTACATTTGAACAGGGCAAAA
TGAACCTAAGTCCATGTAGGCTAAGAAAGAAATGCTAACCTGTGGAAAGTTGGTTTTGTA
AAATTCATGGATCTTGCTGGAGAAGCATCCAAGGAACCTCATGCTTGATTTGACCACTG
ACAGCCTCCACCTTGAGCACTATTCTAAGGAGCAAATACCTTAGCTCCCTTGAGCTGGTT
TTCTCTGATGGCACTTTTGAGCTCCTAAGCTGCCAGCCTTCCCTTCTTTTCTGGGTGCT
CAGGGCATGCTTATTAGCAGCTGGGTGGTATGCAGTTTGGCAGACAGGATGTTCAACT
AATGAAGAAATACAAGCTAAGGCCCTTGCCAGCAACACCTGCCGTAAAGTTAC

Sequence 223

CCGCGGTGGCGGCCGAGGTACAGTCACCATCATCTTGTCTCCATTTGGAAAGATAAAGC
TGATCTTATACACTTCTGAAGTTGGTCGAGAGGTGTTAGAGAGATCTTCCAAACTCTGCG
ACTCCCCCTGGCGGGCCAGCTCTGCGGCCACCTTGCCCCG

Sequence 224

CACTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATTACTC
CATCTACCGAGGCAGCGCATGGCATGACTGAAAGGCTTGGAAACAAACACAGAAATTAGCA
CCACAAACATTCAGGAACCAATATAATCTGCTATGGTCACACCACAGACAATGCAGGAA
GAGGCTTTTTATTGCTTGTGTGTTTTCAAATCAAGTAGGCACAACCCAGTCCTCATAA
CAGCCCTCGGGAGTGGACGCACCGGGCGGGAGAGCGCAGGAGGGAGTGTGCTTGGCTAT
CCTGCCCAGTGGAAAGGAAAGTGACGTGCAATGATCTTAGAGTCCTTGGCAACAGACTGT
GGAGGCAATAACAGGATAAAGAAAGCAGGGAGAA

Sequence 225

CCGCGGTGGCGGCCGCCCGGGCAGGTAAAAAAGGAGACACAAGACTTACTGCA
AAAATATTTTCCAAGGATTTAGGAAAGAAAAATGCCCTTGATTCTCAAGTCAGGTAAC
TCAAAGCAAAAAGTGATCCAAATGTAGAGTATGAGTTGCACTCCAAAAATTTGACATT

ACTGTAATTATCTCATGGAATTTTGTCTAAAATTCAGAGATACGGGAAGTTTCAACAATCT
ACCTTATTG
Sequence 226
CTACTTAGGGCGGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTCCATT
CATTCCAGTGAGAAGCACTAGAACTTTAAATTTTCAGAATTGGATGAAAATAACAAAGAT
CACCCAGTTGAATCATATTTTTTTGTTCAAGCAAAAACTGAGGCTCAGAGACAACTG
TCCTGTCCAAGATTATACAGAAAATGGTGGGAAGAGTTGAGAAGTTTCAATAATGCCA
TGACTGTTGAATCATAGGAACAAAAGCCAAGAGATGGATCCTTACAATAGTTTAAACAATA
TAACACACATGGAACATTTCAAGAAAGAGTTTAAACAATGATCTATGTTTAAAGCTATCT
CTACCTGGCATAGTATCTCACATTCTATAATCCTAGCACTTTTG
Sequence 227
CTACTTAGGGCGGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTGGCCCGCAGA
CTGGCCCGCCAGGGGGAGTCCGAGAGTTTGAAGATCTCTTAACACCTCTCGGCCAA
CTTCAGAAGTGATAAGATCAGCTTTATCTTTCCAAATGGAGACAAGTATGTTTTTCTCC
TCTGTTTAGATGGTGACTGTACCT
Sequence 228
AGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAAATAACATCATAAATAACATAAT
GAGAAGTTTTCAAGTATTTCAATGTGCCTTGAAGAGTTTCAAACAGTAATTTCAACAATT
GGTTAGACAATCATTTTTTTTTCTTTTCTTTTCTCTCATTTAGTCTCAGAGCCTAAAAA
GAAATGCCTCCAGTCTNTGTTAGCCCCGATNTTNGGATGGAATTTACCAGGTTTNTCCTT
TAAAAANAAAAANTTTTGGGGGGTTTTNAAAAANGGGAAAAAATCCCCCNCNTTANAA
AAAAANAATTTCCCCCCCCNGGGGGNTGTTTTAANAAGGGGGGGGNNNNCCCCCCCCCT
TTTTTTTTTANAAAAAANCCCCCCCCCNCNANNNNNNNNNNNCCCCCCTTTGG
GGGGGGGGGGGGGGGNNNAANAAAAAANAAAAAANCCCCCNCNTTCTCGNNGGGGGGG
GNGGGNNGGGGGGGGGGGGNNNAANAAAAANNTTTTTTTTTTTTTTTTTTTTNCNCCCC
CCNCAANNNNNNNNGGGGGGGGGGGGGGGGGGGGG
Sequence 229
CTNCTTAGGGCGGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAAATAAC
ATCATAAATAACATAAATGAGAAGTTTTCAAGTATTTCAATGTGCCTTGAAGAGTTTCAA
ACAGTAATTTCAACAATTGGTTAGACAATCATTTTTTTTTCTTTTCTTTTCTCTCATTT
AGTCTCAGAGCCTAAAAAGAAATGCCTCCAGTCTCTGTTAGCCCCGATGTTTGAATGAA
ATTAAACAGATTCTACCTTAAAGAGAAAACTTATGTGGCGTTTCAAATTTGGAATG
TGTTCCCTCTTATAAAATATAATCTTTCCCTGCTGCTGTTTATAAATATGGGCATATA
GCCCANAGCCATTATAAAGAAAAACAACCCACCACAATAAACTAAGGAGCCTCATCTGA
TGGCTAAGGGTTCTCAGGAAAAAATGAGAAGAGCCCTTGATCAGGAAANGGAAAAAANG
GTTGGA
Sequence 230
TGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACTTACATGGGTGTTTTGATCTCTG
TTCTTTCACTACATTTGAACAGGGCAAAATGAACTAACTGCCATGTAGGCTAAGAAAG
AAATGCTAACCTGTGGAAGTTGGTTTTGTAATTTCCATGGATCTTGCTGGAGAAGCAT
CCAAGGAACTTCATGCTTGATTTGACCACTGACAGCCTCCACCTTGAGCACTATTCTAAG
GACCAATACCTTAGCTCCCTTTGAGCTGGTTTTCTCTGATGGCACTTTTGTAGCTCCTA
AGCTGNCAGCCTTCCCTTT
Sequence 231
CCGCGGTGGCGGCCGCCCGGGCATGGTACTAGAAATTCAGCTGCTCTAGAAATTCCTCCA
TCCCATGAAGCCATTTCCATCATGAACCTTTGACACACTTGAACACAAGTTCCGCTCTC
CTTAAGCACCAGGGTATAGTCATTTNCTCTGACATATAATGTACTTAAGCNCCTGCAGAAT
NGCTCNAAGTAATATNCCNATANGTNCNTTTCCAATTTCAATTA
Sequence 232
CTACTTAGGGCGGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTGGAGCT
GACCAACCGGGAGGTGGAATACATTTGCCCTGTCAAGGGACACCACTGAAACTGATCTCAA
ACAGCGACGAGAGATCCGTGCAGGCACAGCCTTTTACATTGATCAGTGTGCAGTTCCGTGC
AGCCACAGAAGGCAGAACTCTCATTTTGAAGGTTTGAAGGAGGCAGAGAGGAATGTTTT
GCCTGTTTTGAACAATTTGCTGGAAAACAGAGAGATGCAGCTTGAAGATGGACGCTTCCT
GATGCTGCTGAGCGTTACGACAACTTCTCCCGAGATCATACCAAAAAAGAGTTGGAT
TCTTGGAAAATTGCCCCGAGGTTAGTGAAAATTTCCGAGTGATTGCCTTGGGGCTTGCCA

Table 1

TAATGCAGCTCTTTTAATATAAGATTCTTGATACAGTGAAATCTCTTATTTCAAGTGTA
AGTTATTCTTCACCCACCCCTTCCCCTGCCATTGTATTTCCCATCTGTNNANGNGTNN
NANCANTTNNCATTGNNTCGNATNCAGNAGGTNCCTGCCCG

Sequence 241

AGCTCCCCGCGGTGGCGGCCGAGGTACTTATTGAGTGCTTGTATGCACCAGGCTCTGAAC
TAAACGCGCTCCATATTACCCCCATTTAAATCTTACCATTATTCCTGTCTTACAGAAAAG
AAAAAAGGCATGGTGAGTCACACAGTTACAAAATGAGGGCTAGAACCACCAAGGCAT
GTGACCTGCTACACAGGAGAGGCAGATATGAAGATTTCTTCAAGGGTGCTTATTACAGCA
TCATTTATAATAGCAAATAAAGTACCTGCCCGGGCGGCCGCTCTAGAACTA

Sequence 242

CCGCGGTGGCGGCCGAGGTACTCCTCCAGATCCTGGTGCTGCTTTTGTGGTGGTAGAATG
TCCAGATGAAAGCTTCATTCAACCCATCTGTGAGAATGCCACCTTTCAGAGGTACCTGCC
CG

Sequence 243

CCGCGGTGGCGGCCGAGGTACTTTTTAAAAATCTATAAATTTAATGCACTGTCCAAGTG
AAATGTCCTAGTTGTCTTGTGATTAAAGGGCCAACTTTCCAGGCAGCTAGCAGAGATAC
TATTCTCTTCTCTCCCAGCAAATTTGTATTCCTTCGCCCACGCATTCCTGCTATACTAG
ATGGCAGCCAGTGATGGAACATAAAGATGTCTGTGGTCATATGTTGAATGTGGCAGCTT
GAAGATGTACCTGCCCG

Sequence 244

CCGCGGTGGCGGCCGAGGTACACGAAAAAGGATTGGAATTGTGTTAGTTTTTGGTGTTT
AGATTATTTTCTTTGTGCTTTCTTCTTTTTCTTTTTTTTTTTTTCTTTTTTACAATAGG
CCAGTAGAATTCTTATGAGAACAGGCTTTTTAAGCACTTCAATGGAGTGTCATTTTTTTG
GTAGCTTCCAGAAGGTGCCAAACAGGTTTCAACATCATATTAATTAGAAATACCCATAAT
AATTATAACAACAATAAAAAAGGTATAATATGGTACCTGCCCG

Sequence 245

GCTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTGCTTTTCT
TTTGAAAGTATGAAATGATTTTTTACAATGTAAAGAGAGTCTGAGAAATGCAATTGCTAT
TCTTTTTATATACTTTTTTTCAGATTTTTTATATGCTTCTTTACTACTTACATCATAATGCA
CAATTTTATATACTGATTTTTTCAATCAATGTATATCATGAGTTTTTAAAAAATGCTAC
AATCTTCATAACTAATATTTTAATGGGGAGTGACTGCTTAATTGGCATGAGGTTTCTTTT
TGAGATGAGGAAAATGTTCTGAAAATATGGTGATGGTTGCACACCATTGTGGAATGGTAC
CTGCCCGGGCGGCCGAGGTACTTGCTGGGAGAAG

Sequence 246

GCTNCCGCGGTGGCGGCCGCCCCGGGCAGGTACAGGGTCCCCAGCTTACTCCAGGGATGA
TGTCAGAAAATGAGGTCCTAAACATGCAGCTTTCGGATGGAGGACAAGGAGATGTCCCTG
TTGATGAAAACAACTCCATGGTAAACCTGATAAACCTTTCGCTTTTCCCTCTGCAGTG
ATAATCTGGAAGGAATATCTGAAGGTCTTCAAATCGCTCCAATTCAAGTGCTCCCTAG
ACCTAGAAGGAGAGTCTGTGTCAGAACTTGGAGCAGGACCTTCTGGCAGTAATGGAGTTG
AAGCTCTACAGCTGTTAGAACATGAGCAAGCTACAACACAGGATAACCTTGATGATAAGC
TAAGGGAAGTTTGAATTCGTGACATGATGGGGATTAAACAGATGATAGGGGACATATCAA
AAACAGTGAGTGAGACTTGGAGTCTTCGGCCCCCTTAGAAGTGGTGGATCCCCCGGGC
TGCAAGGAATTCATTCAAGCTATCGATCCGTCCACCTCGAGGGGGGGGGCC

Sequence 247

ATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTNCTTTTTTTTTTTTTTTTTT
TTTTCTTATCAAAAATAATTTATTTNCAAAAATTAATTATNCTATACATCCTATACTGG
AAATNCATTGAATAATGCTAAAATAAATNCAGGCAATTAATTCAACTTTTTATAAGAAT
GAGAGAATTNGACATTTGAATGTTATCAAAGCTTAACTTANANCATAAATAGTTAAAANG
GCAAACTCAAGTTTTTCATCTCATTTATTGGCATGGNGNGTTTTGTTTTCCACAAGCTNTC
CAATCAGNGAGAGTCTTGAGTCTCANATGTACCTCGGCCGNTTTAGAAGTACGGGGATCCC
CCGG

Sequence 248

TTAGGGCNATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACCCAGCACATCTCA
GAGAGATGGAGGCAAGCTGGGTTCTGATGATTTCCAGCTAATACAGGTCTTCTCTCCTG
CATGCAGGCGCCCCGTAACGCTTTATAACAGACGCTCTAGACTTCTGTGGGGGTAAAGT
GAAGGACCCAAAGCGACACAAGTAGTGTCTGTTACACTTCCACTTTCAAAGCTAACTAC

Table 1

TAGCTGTTCAAATATACTCCATACAGCTTTCAGCAAATCAAAGTGTTTACCTCTCCCACA
CCAAGGGAAGAAAAGATGCAGACTGCCTTTAAAGCACCTGTCAGCAAGGCGAGGGGTTTT
AAAAGGATCAAGCCTTGAGAATCAAAGCAGCAGCAGAAGTGTCATTCTTNCAGTGCTCTC
CTTCCGGTTC

Sequence 249

TACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACCCATTGGTCTTACAGA
CAAGCATCAGGAACCAGAGGGCCTGGTGGGGCTGGGAGGAAGCTCGGCAGTGACAGCTGA
GGTGCTCATGTCTTCCATCCCACTGCCAGTGGATAATGAGCTCATTAGTCAGACGAGG
ACCAGCCCAGAATAGCCAGGAGTAAGCATGTCACATTACAGAGCTGTAGCCAGCTTCTGG
GTGGAAATAGCACTATCTGGTACCTGCCCG

Sequence 250

CTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCCTTTTTGCACACTGTCA
GCAAAACACGTCCCTTTGAGTATCTCCGGCTCACCAGCCTTGGAGTTATTGGGGCCCTGG
TGAAAACAGATGAACAAGAAGTAATCAACTTTTTATTAACAACAGAAATTATCCCTTTAT
GTTTGCGAATTATGGAATCTGGAAGTGAACCTTTCTAAAACAGTTGCCACATTCATCTCC
AGAAGATCTTGTAGATGACACTGGTTTGGCTTATATATGTCAAGACGTATGGAGCGTTT
CTCCCATGTTGCCATGATCTTGGGTAAGATGGTCTGCAGCTATCCAAAGAGCCT

Sequence 251

TACCCGGGCGAAGTNANTNNGGGGAAAANTNCCCCCGGGCCGNCCGGGCANTTTTTACN
GGCACANGGTTTTAAGCCNCNGAGGGGTTTTTGAANCCCCCANGANACCNANGGNGC
AGGGGGTTTTNNTTTAAANAAGNNGGAACCGCCGGANGANGAGGGANGGNAAAAACACC
CNGGGGAAACCNAANAANCCCNAAAAGGGGNCAAGGNGGNAAAACCCCCAAGCNAACCCN
GGGGGGNCCANGGAAANNCCNGGGACNAAGACCCAAACCAAANGGNNGGANGGCCGCCN
GGGGGACAANNCCGGGCCNACNACCAAGGGGAACAANCAANNNGCCGGNAANNNGGCCNC
AAGGGCCNNGGNAACAAAAANNNNNCNAACCCCGGGGAANNAAAGNAAAGGGGGCAAAAAA
GGCAANAACCCNCGCCCAAAANGGGGAAAGAAAAAANCAAGGNGGCCCGGGGGG
GGGGNNCCNNGGAAAAAGNAGGGGNAAAAAAAAAAAAAAAAAAAGGANCNNNAACCCN
NNCNAAGGNAAGGGGGAAANNNNNAAAAGGGGNANNNNNNNGGGAAAAAAAAGGGGGGA
NAACCNNGGAAAAAAGC

Sequence 252

CCGCGGTGGCGGCCGCCCGGGCAGGTACAAAATAACATCATAAATAACATAAATGAGAAG
TTTTCAAGTATTTCAATGTGCCTTGAAAAGTTTCAAACAGTAATTCTCACAATTGGTTAG
ACAATCATTTTTTTCTTTCTTTCTCTCATTTAGTCTCAGAGCCTAAAAAGAAATG
CCTCCAGTCTCTGTTAGCCCCGATGTTTGAATGAAATTAACAAGATTCTACCTTAAAG
AGAAAACCTTATGTGGGCTTTTCAAATTGTGAAAATTTGTTCCCTCTTATAAATATAATC
TTTCCCTGCTGCTGGTTTATAAATATGGGCATATAGCCCAGAGCCATTATAAAGAAAAA
ACAACCAACCACAATAAACTAAGGGAGCCTCATCTGATGGCTTAAGGTTCTCAGGAAAAA
ATGAGAAGAGCCCCCTTGATCAGGGAAAGGG

Sequence 253

CCGCGGTGGCGGCCGAGGTTGGAAGAGAAGTTACCCCGATGACTTGGTTTGAAGGGGTT
AAGGCACCAGTCATCCTCTTCTAAAGTGATTTATGATGATGTGTGGAGTTTAAAACTTT
ACCCACCCCAAAGAACAGCCCTCTCACTCCTCACTGAGTCCACTCTGAACGTGCTAAAA
TGGAAGGAGGCGGTGTTTGTCTGATCTGTTAAATCTTAGTGAAGTTTCTTGATTTCC
AGTGGCTGCTGTTGTTTGAAGTTTGGTTTGGAGCAAACTGAGGTAAGTCCTAACATTTCT
GGGACTGAATCCAGGCAAGAGAAAGAAAGAAAAAGANGAAGAAAAAGAGGAGGAAAAAGGT
AGGGAGAAATAAAGGGAGGAGAGAAGCACAGTGAAAGAAAAAAAAGTCC

Sequence 254

GGCCGGTACCTTTAACTCAATTTAATATAACAAGAAATCGTAAATACTTATAACCTATC
TTAGAGAAATGAGTGCTGGTTTTGAGAGTTGTTTTTAACTGAAAGATTATTTCTAGATG
GGTAGGGGGCTTTGTGCTGGTTTCTGCTTCCATATATTTCCCACTCATTTTAAATAGAGA
AGATACTCTATGGTAGAACTAAGGCCTTTCTTTCTTTGGCCAAAGTCTTTACCCTATTTA
ACCTTTGTATATTTCTGACTGCTCACTGTTTCAATATAGGGGACCAGATTTGTAATAT
AAGAATTCTCCATAACATGAATGAAATTAATTCTGTCCAAGCCAGCATGGTGGCTTCTAT
TAAGGTAGTAACAGGAAGGTCTGAACAATTGGATAAATTTGACTTTCAAGACAGCTNAA
CTTTTTCACTGGCAATTTT

Sequence 255

Table 1

ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATTGTGGTAGGTC
CAGGAAATATGACATTTTCCCCCTTGATGTGTTATTGTTGTTGGGTGGGGTGGGCAT
TTTGTATTGTTTGGTGGCAATCAGTGGTAGTAGGGAGTGGGAGGGCTTATATTGGTT
TTCCAGCTATTAAGGGGACATATTGTGTCGTTGTGCTTTTCACGTTATAAAATGTTTAT
ATTTACCAGTACCTGCCCCG

Sequence 256

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTCCATAAGCTTGGAT
TTTAAACACTGATAGTATCTCATGAGTAATGTGTGTTTTGGGAGAGGGAGGGATGCTGAT
TGATATTTACATTGTATGAAATACCATGTTTGAAGTCAAGCAATAATGCTATGCTGT
TGTGATCCCTCTCAAGTTCTGCATTTAAATATATTTTTCTTTATAGGAATTGATGTAT
ACCATGAAGTCATTGTGAGTTGTAGTAGCTCTGATGTTGAATGAGATATCATGTTTTAGC
ATTCCATTTTACTGACTAGGGTAGAAGAACTTTTCTGGCTACATTTGGAGGATACCC
AGGGAGTCTTGGGGTGTTCCTTATCTGGGGAAGCAAAACATTTCACTAGTCTCTTTTTT
TCATC

Sequence 257

CCGCGGTGGCGGCCCGCCCGGGCAGGTACATTTTTTAAAGTTCTCTCAAAAAATTCGCTTC
TAGGCAAATGTAATAGATATTGTGCGTTGCTCATGTTTTCTATCAGAACCATGATTTT
AAAAAACTATCCTTTCTGTCCCATATATCCCTCATGTGCCCTCCACTTCTACTCTCAG
CTCCAGTGGACCTGACTGCCCTAAAGGTTATTCTAGACCTTTGCCAGTGAAGTGAATTC
GGATGGACAGGTCTAAGTTACTTTAGAGCAATGAGACCTAAGGATATGGAAAGTGAATTC
TGGGAAAGCTTTCTACTAGGACAGGGCCCTAGAATCCAGCCTGACTCTTCCGCTGC
ATGTAATGAAGATGCACAAGGCTNCAACTGCTACTGGCAATCATCCCATGACCAGAGG
GTAGCCAGCCTTAGGATGATGCCCCATGTTTGTGGGTTGAAAANGGGGGGGG

Sequence 258

CCGCGGTGGCGGCCCGCCCGGGCAGGTACTGCTAGCTGGAAAAACCATATAGAAAAATGA
TGACCATGTTGAGTTGTTGGTGCTGAGGCTGTGAACCTTTGGCTTCTTCTGATGGCCC
TCTTGAGAACAATCTGTACCT

Sequence 259

NNGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAACAAAAGCCTGTGAAGTGGCTTA
AACCAGTTTACATGCTGGATTCGACCCAGATAATAATGGATTCAATAATGAGGATTTTA
TTGTTTGGATGCGTACC

Sequence 260

TAGGGCGAATTGGNAGCTCCCCGCGGTGGCGGCCGAGGTGNTGAAAGTCGATGAAGGAC
GCGATTACCTGCGATAAGCTTCGTGGAGTTGGAAATAAATATGATACGGAGATTTCCGA
ATGGGGTAACCTAAGTGAAGCAACCTNAGNTGCATTTTGTGAATCCATAGTCAAATTAN
CGAGACACCGTTGCGAATTGAAACATCTTAGTAGCATCAGGAAAAAAAAAAAAACCNAA
AANNANAAAGGCTTGACCT

Sequence 261

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGTATAGGCCATATTCCTT
TACGTGGGACATTAATGAAAAGCTGTCTTTTCCAAACTGAAATGCGCCTATTAATAAAAA
ATACACCTGACCATCTAATGCTGAAGTCATCCGCCAAGGTGGTACCTGCCCCG

Sequence 262

CCGCGGTGGCGGCCGAGGTACAGATTATGAAAAATATGAAGGACTAACAAAGAATTACAT
GGATTATTTATCCCGACTATATGAAAGAGAAATCAAAGATTCTTTGAAGTTGCAAAGAT
CAAGATGACTGGCACAACCTAAAGAAAGCAAGAAAGTTTGGTCTTCATGGAAGTTCCGGGAA
ATTAAGTGGATCTACTTCTAGTCTAAATAAGCTCAGTGTTGAGAGTTCAGGGAATCCGAG
ATCTCAGTCATCTTCCCTGTTGGATATGGGAAACATGCTGCTCTGATCTCGATGTTGC
TGACAGGACCAAATTTGATAAGATCTTTGAACAGGTACCTGCCCCG

Sequence 263

TACTATAGGGCNATTGGAACCTCCCCGCGGGGGCGGCCCGCCCGGNCAGGGTTTTTTTTT
TTTTTTTTTATACAAAAGCAACAAGAGTTTAAATCTCTTTTTTACATGGCCACAGGCTC
TCTTCAGTCAGGGGAACCTTCAGCTGGTGCTCTCTTGCAGCTATGAGGCGACAGTGTG
GTGACATGCCTCATACAGACTGTCCAGTAAGCCAGGACAAGTCACCATTAATAATCTTGC
ATGAACAGCCCTGGGCACGTGGGAATGTTAAGAAAGAGCCACCGCTCCTTAGTCAGCTT
AACCACAGCTCCAAACGAGTTTGTCCAGCTGGCAAACGCCTCAAAACACCAATCATGCC
GTCGTGCTCCTATTCTGGGGTTTTATAAA

Table 1

Sequence 264

TAGGGCGATTGGAGCNTCCCCCGCGGGGGCGGCCGCCCGGNCNGGTNCAGATTTNTATTT
ATCCATAGATAGGGTATCTATACATACACATCTCAAGTGCATCTATTCCCACTCTCATT
ATCCATCATGTTCCCTAAATTTTTGTAACTTACTGTAAAAAAGTGCAGTGAACCTCAA
AACAAAACAAAAACAACAACAACAACAAGTCCAACTGATATATCCTATATTCTG
TTAAAATTCAAAGTGAACGAAAGCATTTAACTGGCCAGTTTTGATTGCAATGCTGTAA
AGATATAGAATGAAGTCCTGTGAGGCCCTTCTATCTCCAAGTCTATGATTTTTCTGGAGA
CCAAACCAGATACCAGATAATCACAAGAAAGCTTTTTTAATAAGGCTTAA

Sequence 265

CTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAAGGTACACGGTGGACC
TGGAGTCAGGGCTACACTACCTCCTGCGGGTGGAGCTGGCAGCCCAAGTCCCTGGCCG
GAGCAGAGCTGAAGACGCTCAAGGACTTTGTGACTGTCTTGCCCAAGCTGTTCCCTGGA

Sequence 266

GCGGTGGCGGCCGAGGTACTTTGGGGGAGAAAAACATGATTCCATTTACGGGGAAAAAAG
CCATTGACACTCAGTAAGCAACACTGCCATCTAGTGAATGGTGACACACCACCAAGAAT
TTCAAGACCCGATAGGAAATGTGAGTGGATTTGGTTTCAATTTTACCACAAAAACAGCAC
TTTTAATAAGCTGGTTTTAGAGAACTTCAGATTTTTTTGAGAACTACTTTTTATCTTT
AAAATGCATAAATGTATGTGTTTTCTCTGTTTTGGGGGGGGTGGTTAAGAATGAAGTTGT
ATTTTTCTTATTAGAGCATAAAGTTCTCTACTTGAAAGGTAGAAAACTTTGGGGCAAC
CTGCCCTCCTTGAACATCCATCACTTCTGCTTGACAGCTAACAGCACCCCTGATTTTAA
AGACAGTTTTATAAAGGAAGCAAACTC

Sequence 267

CTNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTCTTTGAG
GACATTTTTGTGAGTTAACTATAACAGTGTAGTGTAGTTTTTAAATGCAGTTGAAA
GTTTAGCTGTCTTGAAGTCAAAATTTATCCAATTTGTCAGACTTCTGTTACTACTTAATA
TGAAGCCACCATGCTGGCTTGGACAGAATTAATTTCAATTCATGTTATGGAGAATCTATA
TTACAAATCTGGTCCCCTATAATATGAACAGTGAAGCAGTCAGAAATATACAAAGGGTTAA
ATAGGGTAAAGACTTTGGCCAAGAAAGGAAAGGCCCTAGTTCTACCATAGAGTATCTTCT
CTAATTAATGACTGGGAAATATATGAAGCAGAAACCAGCACAAAGCACTACCCATCT
AGAAATAATCTTTCAGTTAAAAACAAC

Sequence 268

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTTTCATGGTCAAGCTCTAAGA
CACACGAGCTCTGTTATTCAAGAAATCAATTCAGTGGATTTCCAGTTCCAATTCCTGA
GAAGTGGGTAAGGGGGAGAGCTAATGGTTGCTTCCCTAAGGCCTTCTGGGTTTATTAGTT
CCATTTGAGGACATGACAAGAAATGTACCTGCCCG

Sequence 269

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTTCTA
AGGTAGTTAACACCACACAGGCTGATACTCAGGGCAAGAGAGAGGCCTGGAGAGTTGAC
AAGAGTGTGAAGATACTGGAGAGGGGTTCAAAATAGGATCAATTTCTTAATACTATTCT
TATTTCTTGCTAATAATTTGTCCTTGTAATTATAGTGAAGTAATGGTCTGGATATAAATG
AGATATGGTTTTGTGAGGGAAGAAACATAGAGGATTATTCTTAACAAGTGTGGCAGCCTT
GCCAATATGGAACC

Sequence 270

CCGGGGTGGCGGCCGCCCGGGCAGGTGCGNTCTCAGCTCATTGCAACNTNTGCCTTTNTA
AACATGCTATTAAATGTGGCANTGAAGGANTGTTTTANTGTNATCTTGCTATTAAAGTGG
TAATGAATGTTCCAGGATGAGGATGTTACCCAAAGCAAAATCAAGAGTAGCCAAAGAA
TCAACATGAAATATATTAATACTTCTCTGACCATACTAAAGAAATCAGAATACACAGT
GACCAATGTGCCTNAATATCTTATTGTTCAACTTGACATTTCTAGGACTGTACCT

Sequence 271

TTGGAGCTCCCCGCGGTGGCGGCCGNGGTACATCCACAGGAGGAATCGGACGAGAGGATG
TGACATTCCGTCCAGGAGAGAAAGAGCAGTTTCTGTTAAAGATGTAACAAATGGATTTC
AAAGTCTACATGACATTCATTTTCAAACCTCCCAACAGTTGAATTTCTTTTTTCTTTA
AGAAACAGGTGATGTCTTGGAAAACAGCTCCTTATGTCTCTCTGTGCATCTCCATTTTC
TAGTCTCTGGAGTCTCAAAAAGAGTGGCAAAGCACTTTACAGTAGTAACTGAGGAATCAG
AGTCTCTGCTTCAGCGATATCTAGTTGTACCTGCCCG

Sequence 272

Table 1

CCGCGGTGGCGGCCGAGGTACTTGTCAAATGAAAGAACAGGGATTGCCAGACCTTCAAGG
CAATGGGAAAAGGAGCAAATCTGCAAAGGTAGGATCTCTTTGGAAAGGCAGGTATTGGCCAC
CAAGTCAAACCTCTTGAGTCTTATATTCTGATTGGGATGATCTCACATGGATGTTTCTCT
CTTATATGTGAATGCTCATTGTGAAAAATAGTAAGAGCCAGCTAGGATATTTGGATTCA
GTCAGGCACCATCAGAATAGTGCAGTGAAAGGCCAACTGGCCACAAGACAGAGGAATGT
TTTCAGTTTTCTGGTTTTCTCTGTCATGATAAAGCTCGGAGTAACCTCTTCTATCAAG
ATGGGGCTATACCTTCNCATGACAGAGGCTGGCAATTGAGCTACCCAGCAGAACGTGTGC
TCTCAAAGGGGAAGTCAAGGGAAC

Sequence 273

CCGCGGTGGCGGCCGCGCCGCGGCGAGGTCAAGGAGAAGTGTGCTATATTGTTGGTGCT
TGCTGTTTTGCTGGACATCTTCAATTATTGTTTTACCTGAAATCAGTAAGACTTTGACA
GGATATCACCTGAATTATTAATGAATGCCAGGAAGTAATTTCTTCTCATTTCTTCTAAA
ACTACTGCCTTCAAAGTGCACACACACGCGTCCACATACACTGCATTGCTGCTCCAGT
ATAAATTACATGCATGAGCACCTTTCTGGCTTTTAAGCCAATATAATGGGCTGCAAAATG
AAGACACCAGAGTGTATGCATACAAATCTCACTGTATTAAGATGCAGGTTTTCTAATTG
TACCTCGGCCGCTCTAGAACTAGGTG

Sequence 274

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTTTTTTTTTATCAAAAAAT
ATTTTATTACCAAAAAATTAATTATCCTATACATCCTATACTGGGAAATCCATTGGAATA
ATTGGCTAAATAAATACAGGGCAATTAAATTCACCTTTTTATAAGNAATGGAGAGNAA
TTTGACATTTTGNAAATGTTATCAAAGCTTTAACTTAGAACATAAATAGTTAAAAAGGGCAA
ACTCAAGTTTTCTCTCATTTATTGGCATGGTGTGTTTTGTTTTCCACAAGCTCTCCAA
TCAGTGAGGAGTCTTGGAGTTTCAAGAATGTACCCTGCCCGGGGCCGCGCTCTAGAAC
CTAGGTGGGATCCCCCGGGGCTGCAGGGAAT

Sequence 275

GCGGGCCCCGAGGTACACACCGAAAAGGTGGTGGTATTTTTACCTTCCCAAAGGTGGTGG
ATAGGGTTTTATTGGGCCCTTTTNTAAAAAAGGAAAATANAAAAACCAAAAAAGGTTT
AAAAATAATTGGAAAAGGTTTTAAAAATACTTTTNTTTTACCAGGAAAAATAAAAAACC
TTATTTCCAATTTTTAAAAAANGGGTTAGGAGGAGGAGGANGAAAACCATTTTTAATTT
CCTTTTCTAATCAATTGGAAACCATCCAGGTTCAAAACCCAANGCCTTTTNCACAATTTTT
TGGGGGGCCAGGGGNATTTTTTTTTAAAGGTTANTTAAAAATTTTTTTTTTAAAGGAAA
ACCTTTAATTTTTTAAATTTTTTAAAAAANGGGGAAAAGGAAACCAGGGGTTTTTA
ATTTTTTGGGCCAAGGAAAAAANGGTAAAAAATAAGGAAGGAAATTAATGGCCCAA
AAAATTTTTGGTCTTTTTAAAGGAATTNGGGGCCATTAAACCAAAAAATTTTTAAAA
AAAAACCAACCAAGGTTACCCCTTGCCCCCGGGGGCCGGGCCCGCTTCTTAAGGAAAC
CTAAGGGTGGGGGATTCCCCCCCCGGGGGGCCTTGCCCAAGGGGAAAATTTCCGGANTA
TTCCAAAGGGCCTTTAATCCGGATTACCCCGGTCCGGACCCCTTCGGAGGGGGGGGGGG
CCCCGGGTTACCCCCAAGCCTTTTTTTGGTTTTCC

Sequence 276

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGCCGCGGCAGGTACAACTATAT
ATACATGTGCATATATATGTAAATTTATTTTATATATAATATCTTTATATAGATAGATA
TCTGCAGACAGGTTATTGATTATAGAGACCCAAGAAAGCAACTCAATAATTGTTCAAAGT
TTTCTCACTGACTGCTGGTGTGTAGTTTAAAGAGCCCCCATTTGTTGCACTCAGAATG
CCTTATCTTCTTTAATGGAACACTTGATGTGGAATTTTAAGTCTGAGAAGTGAGGTGCC
TTCTGAAGAAGAGATTTTAGAGACTCCCTTCTCTATAAGTTGGAAATGACCAGAAGTCT
TAAGTAGACCACAGTTAGCTGACTTTGACATTGTAGGACGTAATCAGCTTTTAACCAAAAT
TATAGAACTGGTAAAGGGTAAGATCAAATTTGCCAAAAAA

Sequence 277

CCGCGGTGGCGGCCGAGGTACAGCACTGGGCTTTATAAGACTGCACTCAGAACCACACT
GCACAGTCCAGTTTTTTAAAGGCTGCTACATGACAGACAGGTAATCCCACTGAGTGAGT
TTTGAGAAACAAATCAAACGAAGTAAACAAGAAACATAAAACCAAAATAGCAAATGAATA
AAAGCCTGTTCTTGAACCTATTCAACTTTTGCCAAATTCCTACCAATCACTTGCTTTTT
AAAAGAAATGTATAATAGCCAAAAGAGAAATTATGTCCCTGTTGACCTGCCCGGGCGGC
CGCTCTAGAACTAGGTG

Sequence 278

GAGCTCCCCGCGGTGGCGGCCGCGCCGCGGCAGGTTTTTTTTTTTTTAAGTTTAAATTTTA

Table 1

ATATTTATAAATTTAAAAAATTTTACACGTGCTGAGTGGTAGCAGTGCTAACATTTTGT
GACCATTAAACCACAACTCACTGCATAGAGCTTCTTTCTTGTACCT

Sequence 279

AGGTACCTAACCTACCTTTAAGACTGGGATAACTATTGGAAACAATAGCTAATACCGGAT
ATAGTTATTTATCGCATGATGAGTAATAGAAAGGAGCTTCACAGCTTCACTTAAAAATGG
GGGTGCGGAACATTAGTTAGTTGGTAGGGTAATGGCCTACCAAGACGATGATGTTAGCC
GGGCCGAGAGGCTGTACCTGCCCCG

Sequence 280

AGGTACAGTGCCAGACCATGACTGTCAATCGTCAGATGAAGCGCTACAACGTTCCGTTTC
TAACTTTTATTAAACAAATTGGACCGAATGGGCTCCAACCCAGCCAGGGGCCCTGCAGCAAA
TGAGGTCTAACTAAATCATAATGCAGCGTTTATGCAGATACCCATGGGTTTGGAGGGTA
ATTTTAAAGGTATTATAGATCTTATTGAGGAACGAGCCATCTATTTTGATGGAGACTTTG
GTCAGATTGTTGATATGGTGAGATTCCAGCTGAATTAAGGGCGGCGGCCACTGACCACC
GGCAGGAGCTAATTGAATGTGTTGCCAATTCAGATGAACAGCTTGGTGAG

Sequence 281

CCGGGCAGGTACTTGTATAGACTCAAACATGATGAAAATTCATTTATTGTCTTCAC
TGAATAGACTTAACCTTGACAGTAAGCTTAAAGCATTAGTGTCATTTAATTACATGTCTG
AGGAATTTATGCTAACTAGATTTTGGGCTTTTGCAGCGAATTTTAGTCGGGGCCTCATTC
CTGAGCCCAAGTGACCTTTTACCTCAGCTTCCAAGTAGCTGGGATTACAGGTGCACAC
CAACTGTGCTTTGCAGTTTTGTTGTGTGTGTGTGTGTGTGTGTATTGTTTTT
TTACAAGCCCAACATCATAGCTTTGCAGTT

Sequence 282

AGGTACAGCACTGGGCTTTATAAAGACTGCACTCAGAACCACACTGCACAGTCCAGTTTT
TTAAAAAGCTGCTACATGACAGACAGGTAATCCCACTGAGTGAGTTTTGAGAAACAAATC
AAACGAAGTAAACAAGAAACATAAAAACCAATAGCAAATGAATAAAGCCTGTTCTTGT
AACTTATCAACTTTTGCCAAATTCCTACCAATCACTTGCTTTTTAAAGAAATGTATAA
CAGCCAAAAGAGAAATTATGTCCTGTTGTACCTGCCCCG

Sequence 283

ATTGGAGCTCCCCGTGGTGGCGGCCGCCCGGNCAGGTACGGATACAATCCGCTGAGTTA
AGATTCCAAATTTCTAACCTCTCCATCACACGCCCCAGAAAGGACAGTAGCCAGCTTCTCT
GGATGCTTTGCCAAGCAATTGACTCCATCAGGNGACCATCCAGCGAAGCAAGGAANGGT
TTTGCAAATACTCGNTCCAGTTTGGTAGCATTTAAAGCTCTTATATATTCTCGNGGGACC
TCAAAAGGATGTAAACCT

Sequence 284

AGCTCNCCGCGGTGGCGGCCGAGGTACTTACATGGGTGTTTTGATCTCTGTTCTTTTATA
CTACATTTGAACAGGGCAAAATGAACTAACTGCCATGTAGGCTAAGAAAGAAATGCTAAC
CTGTGGAAAGTTGGTTTTGTAAATTCATGGATCTTGCTGGAGAAGCATCCAAGGAAC
TCATGCTTGATTTGACCACTGACAGCCTCCACCTTGAGCACTATTCTAAGGAGCAAATAC
CTTAGCTCCCTTGAGCTGGTTTTCTCTGATGGCACTTTTGAGCTCCTAAGCTGCCAGCCT
TCCCTTCTTTTCTGGGTCTCAGGGCATGCTTATTAGCAGCTGGG

Sequence 285

TTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTACATGGGTGTT
TTGATCTCTGTTCTTTTCACTACATTTGAACAGGGCAAAATGAACTAACTGCCATGTAG
GCTAAGAAAGAAATGCTAACCTGTGGAAAGTTGGTTTTGTAAATTCATGGATCTTGCT
GGAGAAGCATCCAAGGAACTTCATGCTTGATTTGACCACTGACAGCCTCCACCTTGAGCA
CTATTCTAAGGAGCAAATACCTTAGCTCCCTTGAGCTGGTTTTCTCTGATGGCACTTTTG
AGCTCCTAAGCTGCCAGCCTTCCCTTCTTTTCTGGGTGCTCAGGGCATGCTTATTAGCA
GCTGGGTGTTGATG

Sequence 286

CCGCGGTGGCGGCCGAGGTACTTACATGGGTGTTTTGATCTCTGTTCTTTTATACTACAT
TTGAACAGGGCAAAATGAACTAACTGCCATGTAGGCTAAGAAAGAAATGCTAACCTGTGG
AAAGTTGGTTTTGTAAATTCATGGATCTTGCTGGANAAGCATCCAAGGAACCTCATGC
TTGATTTGACCACTGACAGCCTNCACTTGAGCACTATTCTAAGGAGCAAATACCTTAAC
TCCCTTGAGCTGGTTTTNTGATGGCACTTTTGAGCTCCTAAGCTGCCAGCCTTCCCTT
CTTTTCTGGGTGCTCAGGGCATGCTTATTAGCAGCTGGG

Sequence 287

Table 1

AGGTACTTACATGGGTGTTTTGATCTCTGTTCTTTCATACTACATTTGAACAGGGCAAAA
TGAACCTAAGTCCCATGTAGGCTAAGAAAGAAATGCTAACCTGTGGAAAGTTGGTTTTGTA
AAATCCATGGATCTTGCTGGAGAAGCATCCAAGGAACCTCATGCTTGATTTGACCACTG
ACAGCCTCCACCCTTGAGCACTATTCTAAGGAGCAAATACCTTAGCTCCCTTGAGCTGGT
TTCTCTGATGGCACTTTTGAGCTCCTAAGCTGCCAGCCTTCCCTTCTTTTCTGGGTGCT
CAGGGCATGCTTATTAGCAGCTG

Sequence 288

AGGTACAGTAAACATTATTCACTGAGAGATCAGAAGGAAACAAATGGCATCTTTTCAGAA
CGCTGTCAACTGTTCCCAACAACCAAGTCTGTTTTTCCAAGTTGCACAAGTGCTTGAAT
AACTCTGAAACAATTCTCTCAGAGTTTAAAGGCTTCAGAGTATAGGTGATGCTTCCTAA
AACAAGAAGCCTGTATTAACATCACAATTGGAACCTATTCCAAAGCCTCTTCTTAGAGA
AAAAAAATAAAGAAATAAAAAATAAAAAATGTAAAGAAGGTCATGAAAAATTCACATGC
AGCTAATTATCGTAAAAATATCAAACAC

Sequence 289

AGGTACAGCATTGATGAACACTTTTCAGCCGAAGCAGATTGTCAAGTCTCTTATCCCTTCG
TGGAACAAACTGGTTTTCTTTGAAGTATCTCCTGTGTCTTTTACCAGGTGTCTGAAGTG
CTGTCTGAAGAAAAGTCACGTTTGTCTATAAGTGGCTGGTTTCATGGTCCATCATTGACT
CGGCCTCCCACTACTTTGAACCCCACTACCTNGGAGCCCTCACATCCACAAGATCAT
GAGATTTTGTATGATTGGATCAACCCTACTTATCTGGACATGGATTACCAAGTTCAAAT
CAAGAAGAGTTTGAAGAAAGTTCTGA

Sequence 290

CCGCGGTGGCGGCCCGCCCGGGCAGGTACATTGTGGTAGGTCCAGGAAATATGACATTTTC
CCCCTTGATGTATTATTGTTGTTGTTGGGTGGGGTGGGCATTTTGTTTATTGTTTGGTG
GCAATCAGTGGTAGTAGGGAGTGGGAGGGCTTATATTGGTTTTTCCAGCTATTAAGGGGA
CATATTGTGTCGTTGTGCTTTTACGTTATAAAATGTTTATTTACCAGTACCT

Sequence 291

GAATACGACTCACTATANGCGNNAATCTGANAGCTCCACCGNGGTGGGCGAGCCCCGCCCG
GGGCAGGGGTTTTTTTTTTTTTTTTTTTGGTAAATTTTCAATAAGTTTAAATTTTAAATAA
ACCAAGGGTTTTACAATTAACCAAGGTCAACGGTGAATGGAAACCTTTTTTCTTTT
AAATGGTCAAGCNTNAAAACCTTCAAAAAACCAAGTTTTTGGTTTACGGGTTTCAA
AAACCCAAAAACCAAGGCTTCNTTTCAACGGTTTTTCCCAAGAAAAGCCTGGCCCTTCAACA
GGCTTAGGCCACCAAGAATCAACAAGGGAAGAATTTAACTGGTCNTTGGTCCCAATTAAC
CCAACCCAAAGAACCACCAGGGGAAACCTTGGAACCAACCCCAACCAACCCCAAGTTTTT
TTCAAAAAAGGGAAGGGGGGAAACCTTACCAAAATGGAAATGGGCTTGGGCCCTTGGCC
CCAAGGGGGGCCAAGGCCCAATTGGAAGTTGGGTAATTCNTGGGGGGGACCTTCAAAGGGC
CTTGGGGGAAGGTTTTTTTTTCCCAAGGGGGGGGGAGGNAAAAGGGCCCTTGGGGGGAAAA
GCCTTTTGGTGGGGCCAAANGGGGGGAAAGNTTTGGGGGNAAA

Sequence 292

CCCGCGGTGGCGGCCGAGGNACNGANTNATTTTCNGNATTACTGAACNCCTTTGAACATAT
TTTGAACNTGATCTCTTCTCTGAATAACTGCCGAAACTCAAAGATAATAATNAGTTGA
TGAAGGTTATCAATTAATAAAATAACNCAGACCANTCTTACCAACTCTAAATACATTNT
AAAAAATTTTAACTGGCAATGATAAAAGAATGTTGAGTACCTGCCCG

Sequence 293

CCGGGCAGGTACAATAAAGTTACCCACCCTGCACTTTGGCCCTTAGATCAATCCTAAGT
AGCCATTGCCAGTAGGCCAAGTTTAACTCAGAGGACAGTGCCTACCAGTAAATACTGAATA
GTTACAATAGTTATGTCCATCCAACCAGTAGCAGATGAACAGCTAATACATCATGATGCT
ATGCTCTCCTAACAGGGTCCCTCAGATCCTCAGTGAGCACATAAAGAAAGGGAGGTCAT
ATCCCTTACATCTCTACCAGGTATTAACACCTAACTACTCTCTAGCCAGAGGCAATTCCC
TTTATTTCTTACTCTCGTCTGCTTCTCT

Sequence 294

CCGGGCAGGTACATAACATTTCAAATATAAGTGAAGGATCATCAGTAGTGTTATCAAAA
TGCATAATACAGAACTTTTTAAGAAAGGATAAAAAATTACACTCAGGACCCATAACTCT
TCCTCATTATAAGCATATGTAGTGATTCATTCATGCAGGTTTTATATGTAGATAGGATT
TTTTTTCTTTTCAAGAATCCATTGTAGCCATGAGATGAAAAATGTATTATGGTAATG
GTATAGCTTTCTTCTATTTTGTCTTTAGTGTTAGGTTTGCTAAAAGCTTATTTAAATTC
CCAACGTACATAATGTGTTTTCAATAAGGAGGACGCT

Table 1

Sequence 295

AGGTACTGATTTAACACTCTGTATTACTGAACTTCTTTGAACTATTTTGAACCTTTGAATC
TCTTCTCTGAATAACTGCCGAACTCAAAGATAATAATTAGTTGATGAAGGTTATCAATT
AATAAAATAACACAGACCAGTCTTACCAAACCTCTAAATACATTTTAAAAAATAGGAACTG
GCAATGATAAAAAAGATGTTGAGTACCTGCCCG

Sequence 296

CCGCGGTGGCGGCCGAGGTACAGCACTGGGCTTTATAAAGACTGCACTCAGAACCACACT
GCACAGTCCAGTTTTTTAAAAAGCTGCTACATGACAGACAGGTAATCCCAGTGAGT
TTTGAGAAACAAATCAAACGAAGTAAACAAGAAACATAAAAAACCAATAGCAAATGAATA
AAAGCCTGTTCTTGTAACCTATTCAACTTTTGCCAAATTCCTACCAATCACTTGCTTTTT
AAAAGAAATGTATAACAGCCAAAAGAGAAATTATGTCCCTGTTGTACCTGCCCG

Sequence 297

CNCCCCGCGGTGGCGGCCGAGGNACAGNACTGTTTTTTNNAAGACTGCACCCCAAGAAC
ACACTGCACAGTCCAGTTTTTTAAAAAGCTGCTACATGACAGACAGGTAATCCCAGTGAG
ACGAGTTTTGAGAAACAAATCAAACCGAAGTGNACNNGAANCATAAAAAACCAANTAGCAA
ATGAATAAAAGCCTGTTNTTGNAACCTATTCAACTTTTGCCAAANTCCTACCAATCACTT
GCTTTTTAAA

Sequence 298

CCACCGCGGTGGCGGCCGAGGTACTATGTCAGNNTTGTATGTAAGTACTGCTGTCAGGTCTT
TCCCCGTTGCCTCAGCCTTTCTACACAGACTGGCCTTCAACTTCCCCTGAGTCCAGAAGT
AGACTCTTTTACGAACTCTATTAGGAATCTGCAGCAGGAAAACTGCTTCCTCTATTAACT
ATCTATGACTGAAGCACAGATGTGTCTAATAGAAATCACCCCTTCAACCAAAAGCTGGGTG
CAGAAAGGGAAGCCCTTAGCTGACTATAGGAGGTGCCTCTTGTGGCTCCACGTGCTTCTT
ACACACCACCCCGAGCTTGAGCGATGCCTCAGCCAGCTCACCTCATCCACACAATCGC
TAGAAA

Sequence 299

CCGGGCAGGTACCATATCTCCTGGCTTCTCTACATGGGTCACTTAGTTAAGAGGGAGG
CCAAGGGAGTTCGATTTTCAGGCAGTGTGTGGCAGGGTTACTGTCCTAGCAACCTGGCTA
CTCCTCACTGTGAACGTTTCTCATAGGTGTATATGGCAGGATGAAAAACATATTTGCCT
CCCAGTGAAAGATGGCACAGGCTTTTGGCCAGCCAGGTTGGCAAGAGAACAGAACTCTTA
ACCCCTTGCTCGACAGGTTTGAGTTCAAGGGGTTGGATGCTCCAAGCAGAGGGCCAAACC
CTGATTTATGAAGCATGCTAGGTCAACAGCCAGTCAGACCA

Sequence 300

CCGGGCAGGTACCTAAGGGGTTACTTGTTTAATGGGATGGCATTGACTTTTTGAAAATCA
AGTGGACTGAGTCATTGATAAAACATTTCTAAGAGTGGGGCTAGAGAACATACTTTACAT
CTGACATCCTTTGGCCTAACAACTCTATTATTATAGTGCTCAGCAGTGTGGGCATTGAA
GAGGCGCAGAATGCTTTGAAAGAACTAATCAGAATCTTGGAACATCATGATCATGCCAT
TCTTAAGTAAATCAACTATTTTCAACACTGAAGAAAAATGAAACATTATTTAGAAAACAA
TGAGATTACAAGTTCCAAACTCAGCCA

Sequence 301

CCGGGCAGGTACCTCTACCTCCTTCCCTGTGCGAAAAGTACCACCTTTAGTCCCTGGCC
ACCAGCACACCCAGGAGGGTGAGTGGCCTGAGGTAGTTACCGGCACCTTAAACTCCCTT
GCTACCGATCTGGAACCTCAAGCCCCAAGACATCCCCTTAGATGATCTGAATACGCATTCA
GGGACAGATCTAGGCAGTTTCTAAACAACACTTAGACTGGGGTCTAACGTTGACAAATCC
TTCTAGAATTTGCCTCTTTGGGACTGAAGTCTAAGGGGCTGAGACCAAGAAGGGAGAGCA
CAAGACTAACTTTGGTCTCTTGACCTTTT

Sequence 302

AGGTACCTTCTAAGGTAGTTAACACCACACAGGCTGATAACTCAGGGCAAGAGAGAGGCC
TGGAGAGTTGACAAGAGTGTGAAGATACTGGAGAGGGGTTCAAATAGGATCAATTCCTC
TAATACTATTCTTATTCTTGCTAATAATTTGTCTTGTAATTATAGTGAAGTAATGGTC
TGGATATAAATGAGATATGGTTTTGTGAGGAAGAAACA TAGAGGATTATTCTTAACAACT
GTGGCAGCCTTGCCAATATGGAACCCAATTTTCAGAGTTTGTGAAATGGTACCTGCCCGG
GCGGNCCGCCCGGGCAGGTACAGTGACCTAAAGT

Sequence 303

AGGTACTCAAATGCATTGATTTTTCCAGCTGGCTTTTCAGAGCAGTGCTAGTGAGAGGCA
CCAGTGTAACCTGAAGCAGGAATAGTGATGGCTCAGGTCCCCACAGGTAGCTCCTCCATA

Table 1

CCTGTGGGACTCAAAGGCTAAGGGCACTAACTCATAGGGCTCAAAGGCTGGATGAAGAGA
ACAATCAATGTGTTAAATGTCTTCAGACCTAGGTCAGAGGACAAATTTTACTAATTCT
TTTGACTAATTCTTTTTGCAACTTCTCTCAACAGGTACCTGCCCG

Sequence 304

CCGGGCAGGTACCTATTCACCATTCACCTGAAGAAGCTCTGCAGTAGGAAAAATAATT
AACACACTTATAGTCTACTGCCTATGTAAGGATCAGCTCCGGCTAAGAGGCCAAAGATGG
GTGACATCGTTATGCTCTGCCTTTATTTTTCTTTCTTACCCACTTAGCTTCTAATTGG
AGGAAGGAGGCGTGGTAAAGGTATATGAAGACTATGGTTTAATTAGACCAGAAAACACTG
TCATAATCTCTGGGGTCATCAGAATGTCCAGTTTTGTCTTTGGGCCAAGATAAGGGCAGT
GGGATTTATGATGTGTTGTTTATAGTCTGAAACTACTC

Sequence 305

AGGTACGCATGTGCGAGGGTTAAGTATGATGCAGAGGTTAAAGTCTGTTTGAACAAAAAC
AAATGCCCGGGGAAATTTTCATAGCTATAAAGTTAATACTAAATTTTGTCTACTAAGAGG
ACCTTTTCTATGGATTTCTTTCATCTCTCAGTCACACTGCAAACTTATCTGAAGTGCCT
TCCCAAGTGTAGTTAGAGAATAGGAAGGAATGTAAATTTTTTTTTTAATTATTTGTTT
GTTTGTGTTGTTGTTTTTTTTAAAAACAGCCCTTATTAAGTCTTCTTCCACTGATTCTAC
TGTAAGTCTATAAAAGCCTTTTATAGAAAGCAAATTC

Sequence 306

CCGGGCAGGACTAGGGTGGACTAATGTCTCACTTCAAAAAAATATGAGTGTAGTATACT
TGGCCTAAAATTGTTACTCAGTGTTACTAAAGTGTAAATCATTTTCCACATCTCCAAATAT
ATTCCAAGTCTCTGAAATACTAGTGCAATTGGGAGGTAGAATTTTTCGAGCTTCATGTCT
GTAAATGGTTTCTCTTACTGTCTTCAAGTAAATCAGAATAAATGATTGATGTAATACT
TAAAAAAGGCTTTTATAGAAAGCAAATTC

Sequence 307

CCGGGCAGGTACATTCAAATCAGGACACCTGGGTATATGGACAAAGATATCCTACAATTA
AAATGGAATAGAAGTTAAAAAAGTTCAGTCCCTACACCACAGGCCCTCAAACATGCT
TGCTGATGGATTCTGGGAAGGTTTTGGATGAAGGACGGAGATATGGGAGGAAAGTGAGAA
AACAGTGGATTCCCTTTGAAAAGTATGCTAGCAGACAAGCATTGTTTATGAAAAGAGG
CACTCTTATAGAGAAAGAAGCTAGTATGTGGTGTATAAAAAGCCCTAAATCATCACCAG
AATGTCTATCCATGATTGTACCTCGGCCGCT

Sequence 308

AGGTACAGCCTCTCGGCCCGGCTAAACATCATCGTCTTGGTAGGCCATTACCCTACCAAC
TAATAATGTTCCGCACCCCATTTTTAAGTGAAGCTGTGAAGCTCCTTTCTATTACTCA
TCATGCGATAAATAACTATATCCGGTATTAGCTATTGTTTCCAATAGTTATCCCAGTCTT
AAAGGTAGGTTAGGGTACCTGCCCCGGCGGNCNCCGGNCAGGNCATAATACATGATTGA
ATACATGANCGNATNTAACATGNNTTTTTTTCTGNNNGGNCNCAATAAACATNCTNAAA
GNNGCANCTGCNNATCAGNNACCCTTAGAAAA

Sequence 309

ANCCCCCGCGGNGGCGGCCGAGGTACGCATGTCNTTTGGNNNAGTATGAANCAACNGGTT
AAAGTCTGTTTGAACAAAAACAAATGCCCGGGGTAATTTTCATAGCTATAAAGTTAACAAC
TAAATTTTGTCTACTAAGAGGACCTTTTCTATGGATTTCTTTCATCTCTCAGTCACACTG
CAAACTTATCTGAAGTGCCTTCCCAAGTGTAGNTAGAGAATAGGAAGGAATGTAAATTT
TTTTTTTTAATTATTTGGTTTGGTNGGTNGGTGGTTTTTTTTAAAAACAGCCCTTATTAAC
TCTTCCTTCCACTGATTCTACTGGAACTCATAAAAGCCTTTT

Sequence 310

CCGGGCAGGACTAGGGTGGACTAATGTCTCACTTCAAAAAAATATGAGTGTAGTATACT
TGGCCTAAAATTGTTACTCAGTGTTACTAAAGTGTAAATCATTTTCCACATCTCCAAATAT
ATTCCAAGTCTCTGAAATACTAGTGCAATTGGGAGGTAGAATTTTTCGAGCTTCATGTCT
GTAAATGGTTTCTCTTACTGTCTTCAAGTAAATCAGAATAAATGATTGATGTAATACT
TAAAAAAGGCTTTTATAGAAAGCAAATTC

Sequence 311

CCGGGCAGGTACATTCAAATCAGGACACCTGGGTATATGGACAAAGATATCCTACAATTA
AAATGGAATAGAAGTTAAAAAAGTTCAGTCCCTACACCACAGGCCCTCAAACATGCT
TGCTGATGGATTCTGGGAAGGTTTTGGATGAAGGACGGAGATATGGGAGGAAAGTGAGAA
AACAGTGGATTCCCTTTGAAAAGTATGCTAGCAGACAAGCATTGTTTATGAAAAGAGG
CACTCTTATAGAGAAAGAAGCTAGTATGTGGTGTATAAAAAGCCCTAAATCATCACCAG

Table 1

AATGTCTATCCATGATT

Sequence 312

AGGTACAGCCTCTCGGCCCGGCTAAACATCATCGTCTTGGTAGGCCATTACCCCTACCAAC
TAACTAATGTTCCGCAACCCCATTTTTAAGTGAAGCTGTGAAGCTCCTTTCTATTAGTCA
TCATGCGATAAAATACTATATCCGGTATTAGCTATTGTTTCCAATAGTTATCCAGTCTT
AAAGGTAGGTTAGGTTACCTGCCCCGGCGGNCNCCGNCNGGNCATAATACATGATTGA
ATA

Sequence 313

AGGTACAAACAGTAGAACAATACTGACAAATGCAAACTTAGTCACATGTGCTTTAATAAC
TGACAATACATTCAAGCAGGTTTTCTAATTCAAGTGTATAGCACATATTCAAATAATAG
GAAACAAATCTCATGCAAAGTAAATAAATCTTGATGTNTAAAACTGATTAGAACTAGAA
AAGAAGTGGACATGTTTTATTATCTTTGCATTACGTTCTAACAAAAGCAGATTATCAGGG
GCTCTTACTCACTTGCCATTCTGACATGAGCACTATAAGTGAATACTATGAGTTCTACA
AACAGAACATTTTTCCACATGAATTTGACTTGCAA

Sequence 314

CCGGGCAGGTACGCCGTTTCTTGTAACACGAGGCAACCCCAAGATAAGAAGACAGATAGA
GCAAGGGATGGACATGGTCATCTCCTCAGTGATTGGAGAAAGTTACCGGCTTCAGTTTGA
TTTTCAAGAGCGAGTGAAGAATTTCTCCCCCAGGAAATGAAGTGGTTAATGGAGAAAA
TTTAAGCTTTGCATATGAATTCAAAGCTGATGCATTATTTGATTTCTTCTATTGGTTTG
GCTCAGTAATTCGTTGTAAAAGTAAATGAAAAGTTCTGAATTTGTCAAGTACCT

Sequence 315

AGGTACATTTTGTATTAAGTGAAGTCAAGTAAACAGTAAACCTGTTTTACTTAATCCCT
GTCTTGACTACCAGACTATCATGATGTTTGTGGAAGTGAATTCCTGCTCTCCATTTCT
CTCTGTCCCCCAAGTTGAAAATATAACCCAAATCTTTAGAATTTTGCCTCTCATTCCCT
GCAACTCCAGTGGGCTAGAATCTTGATCCAGTTTTCTCCAGACTAGATTTCAAGCTACTC
TGCATGATGTAGAACATGTAACCATGTAACCTCATCAGCTACCTTTTCCCTTTTGACTTT
TCCTGTTGCACACAGTTCACTCTGACTATC

Sequence 316

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACGAATGCGATCACT
GTGGGAAGGCCTTCAGCATAGGCTCCAACCTGAATGTGCACAGGCGGATCCACACCCGGG
AGAAGCCCTACGAATGCCTTGCTGCGGGAAGCCCTCAGCGACCACTCATCCCTCAGGA
GCCACGTGAAAACCTACCGGGGAGAGAAGCTCTTTGTGTCATCCGTGTGGAAGGCTCC
AGTGAGCGCGCCTGCTTTAGAGACACAGGATGATTACAGACCGGAAACAGACCTCGTGGGT
GTAAGAGGAAGCCTCTGTGAGCTCGCACCTTACTGGGTGCAAAAAGAAATCCACGGAACCTG
GGAGAAGTCCAGTTCCCTGTAAAACCTGGGAAGACGAGGCGTTCTCATCCCATAGGAGGTT
TGTGAGAAGTCAAGCCGGGGGTGAAAATGTACCT

Sequence 317

GGAGCTCCCCGCGGNGGCGGCCGAGGNTTTTTTTTTTAGTTTAGTTTATTTCTAGTTCA
AAAATAATCTGTAATTGCTGTAAGAAATGTCAACCACTTACCTAGGATGTTTGACAATTG
GGATGAAGTCTACATATACTAAGTAATGGCNAGACAATTATTTATTGCTCAAAAAGAAAG
TCAAAAAAATCCATATTCCTTTGGGGAAGAAATGGCAGGATTTCAAGTATGACCTTTAA
GAATCAGGAAAAGACTAAGTTATGCTTTAGGATTAACAATCAAATAATTAATTAAGTT
C

Sequence 318

TCTGGCGAACATACATGGCATATAGAATATCNCCTTCTTCCACATGCAGCCTGAACTTCT
TCACCTTCTCAAATAAGGCCTTAGCCTGCTCACCTTCTTTTATCCAGAGCCCTGCAG
TGGATTTATCAACTACAACTTCTCAGGAATGGACTTTAAAGACTGAGAGTTGACCAGGC
TGCCTTCTGGACCAGATTGGATGGTGTGGACCTGTTTCATGTTGTTCTTCTGTTGTCCT
TTTCTTCTGAGTCCTCCCCAGACACTTCAGATAAAGCCCCGTGTGGTCCAAGGGAGAGTC
AAAACACTTCCCCAGAATGGGAGATGAAAATGTTCTATTTTGGGAGCTGGGACCAGGGGA
ATTTGAACCAAAAAGTTACTGGCAGAGCATAAANACCCAGGGTNTNGATGAAGGCCAAGG
TAAGGGNAATCTTGGCTTACCAGTGGAGGGCTCGCTTATACACATTTTGNTNANAACGGN
NNCCTTCCCCGGGCGCGGCCCGCCCGGCAG

Sequence 319

TNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACTTAAACAT
CTCTTAGTAATTGAGAAAATTGAAAGAAAAGAAAAAGAGAAAGGGAGAAAGAGAAACAG

Table 1

CGAAAGGGATAATGAAGGCGAGAAAGAAGAAGAGAAAGGAAGAGGAAGAAAAGTAAAAAG
 GAGGAGGGGGGAAGGAAGGAAGGAAGAAAGGTGAAAAGAAAGAATGGTAAACTTTTTAAACAA
 CATAATTTATCCTTCTAGAATATGAATGTTGGTCTATTTGATGATGTCCCACAAATTCAT
 TAGTCTCTGCTCATTGTTTATTTTTTATTCTTTCTGTTTCTCAGAGACAGTATTTTCCAT
 TTTCTTCTCTCAAGTTCATGGCTTCTCTGTGTGTGCAAAATATACTCTTAAATCCCTCT
 GGTGATTTTTAAATTTTTATCATTGNAGTTTTCCACTCCAGAATTTGGTATCCTCTTTGC
 TGATATTCCTACTTTTTAATATTTTTCTGATCCCTTATTTCTTTGGTTATGGNTTC

Sequence 320

NCCGCGGTGGCGGCCGAGGTACCGCTTATGCCAGGCCGATCCCGACCTGGACTCAGACAA
 GGATGAAACAGGCGCCTATTTAATCGACAGAGACCCACCTACTTTGGGCCTGTGCTGAA
 CTACCTGAGACACGGCAAGCTGGTGATTAACAAAGACCTCGCGGAGGAAGGAGTGTTGGA
 GGAAGCAGAATTTACAATATCACCTCATTAAATAAACTGTAAAGG

Sequence 321

GGGCNATTGGAGCTCCCCGCGGTGGCGGCCGAGGTTTTTATTTCTAGTTTAGTTTATTTCT
 TAGTTCAAAAATAATCTGTAATTGCTGTAAGAAATGTCAACCACTTACCTAGGATGTTTG
 ACAATTTGGGATGAAGTCTACATATACTAAGTAATGGCAAGACAATTATTTTATTGCTCAA
 AAGAAAGTCAAAAAAATCCATATTCCTTTGGGGAAAATTGGCAGGATTTCAAGTATGA
 CCTTTAAGAAATCAGGAAAAGACTAAGTATGCTTTAGGATTAAACAAATCAAATAATTAA
 ATTAGTTCAATTTCTAACATAGTCTCTATCTTCAGTTAAAGTGCATCATTGCATGTTAT
 ACATTACTAAAATTCACAGTGCATAATTGTTACCCATGTGACTATTTAATTCAGGGTCA
 ACTGTCTAAAGGCTCAAGGTGTACATTAAGGGTATAATCTAGAATGAATTGGACNA

Sequence 322

AGGTACATACTCAGACATGTCTAATACAATTCAGTGTTTTATAAACTGGCAGAATTGAT
 GTGTTTTATAACAATTCAGTATCCAAAAGCCTGAGGAGACTTGGACCATTTTCTAAGGG
 ATGAAGCGGGAAACGTTTATTAACCAGAGCCAGATTGAGACCTTAATAATAAAAGACAT
 GGGTCCAACCCATAGGTCACTCCAAATGGCATCAACACTAAACCATAAATAAGCGTTAAC
 AAAGTGCAAAGTTCTAAATTTTCGCATAGCTACTTCAAGTCCTCTCTTTTTTAAACATTA
 TTCTTATGTGGCTCACCCGTCATAAGTCTCAGTGTGCCTCTTGGGTGGCTCAGCAGTGG
 GAAGTCCACTTTCAGCCTAACTACTCCTAACAATGAAGCTGTTCTCCAGAGAGCAAGAAT
 AGCCAGCCACATGCCCCCTTCTCTGCTTTTTCTATCCCCCTCCATCTGATTCAATGGCGGT
 GTCCCTGGCTTGCAGGCTTCAGTATGCTTCA

Sequence 323

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATTGAATCATCATGTAAGG
 AGTTTTTAAACATTGTTGCCAGGGCCCTTTCTAGACCAAGTTAGTCAGAATGTTGGAC
 AATGAGGCCCATGCATGGGTATTTTACAAAGCTCTCTGGGAGATTCTAATGCTTAACCA
 AATTGAGAAGCACTGAATAAGAATATCCTGGGCCGGGCGCACTGGCTCATGCCTGTAATC
 CCAGCATTTTGGAAAGGCCGAGGCGGGTGGATCACTTGGGGTCAGGAGTTCGAGACCGCC
 TGGCCAACGTGGTGAAACACCGTCTCTACTGAAAATACAAAAAATTAGGTGTGGTGGTGC
 GTGCCTGTGTTCCAGCCACTCGGGAGGCTGAGGCAGGAGAATCGCTGGAACCTGGGATG
 TGGAGGTTGCAGTGAGCCAAGATTGCACCACTGTACTCCAGCCCC

Sequence 324

CCGCGGTGGCGGCCGAGGTACATTGAATCATCATGTAAGGAGTTTTTAAACATTGTTGC
 CAGGGCCCCCTTTCTAGACCAAGTTAGTCAGAATGTTGGACAATGAGGCCCATGCATGGGT
 ATTTTACAAAGCTCTCTGGGAGATTCTAATGCTTAACCAATTGAGAAGCACTGAATAA
 GAATATCCTGGGCCGGGCGCACTGGCTCATGCCTGTAATCCAGCATTTTGAAGGCCGA
 GGCGGGTGGATCACTTGGGGTCAGGAGTTCGAGACCAGCCTGGCCAACGTGGTGAAACAC
 CGTCTCTACTGAAAATACAAAAAATTAGGTGTGGTGGTGCCTGTGTTCCAGCCAC
 TCGGGAGGCTGAGGCAGGAGAATCGCTGGAACCTGGGATGTGGGAGGTTGCAGTGAGCCA
 AGATTGCACCACTGTACTCCAGCCCC

Sequence 325

CCGCGGTGGCGGCCGAGGTACTGTCTTACAACAGTTTGGACTGAATATTCTTGTTTCCA
 TTCACAAACATTTCTTTCTGAAGTACCAACAGCACTAATCAATAGCTACCTTAAGCCAT
 TTAAGACTAAGCTTTAGATGTGTGTCTAATTATCTGGCAAAAAATAAAGAACCAAAGAGT
 TTCATGTTAGCAGCAAATTAAGTATTAAGGGTCTTGATTTTTTTCATAAGCCTTTGG
 AAGCCTGCATATTAACACTGGTGAGTTTTTAAATTCTCAATGGAAATGGTGATGGCATT
 ACTGAACCAAGCCAGCTCATATTACAACGTTTTTTTTTTTTTTTTCGTGGTTCTGAGTG

[illegible]

ANGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAGACTCTTATTTNCTGCAGC
 TTTTGAATACTAAAGATACCTGAGTNATTTTAAATAAATTTAGGTTNCTTTACCAA
 CTACCCTTAACCGGATTCTCCTTGAAATGACATCACCTGACACCCATGGCATGCTGNATG
 CCCACAGNTAGATTACTTTTTAGTGCGCCACCCNCTTCTGCTTTATTAGGNGAGGCAN

Table 1

AATCAAGATTCCCTTTTGNATCTTGNACCTGTTTCATGCCACTTTGATATTCTAAATT
CATACATAAACCAAT

Sequence 332

TATACGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTAGTGTTTTTAGATACA
GAGACTTGGGGAAATTGCTTTTCTCTTGAACCACAGTTCTACCCCTGGGATGTTTTGAG
GGTCTTTGCAAGAATCATTAAACAAAGATTTTTTTTAAACATTCCAATGCATTGCTAAA
ATATTATTGTGGAAATGAATATTTTGAACATTACACCAAATAAATATATTTTACCTG
CCCCGGCGCGCCCGCGGCAGGTACATAATACATGATTGAATACATGATCGTATTTAACA
TGTTTTTTTTTCTGCAGTGGACAAATAACATCCTCAAAGTAGCAACTGCAAAATCAGTT
ACCCTTAGAAAAGCAAGACCAAACACTGTAGTTACACTATTAAAGCAGTGACCAAAAAGGG
CTAATATTTTCTAAGAATAGTTAAATTACAGACATTTGGTATATTTACCTTATGTGAAA
TACATCACTATTTAATTACATTAAATTTTAAACATCTGTTGNGTGGAGGTTGTATAGGTTT
ATGCCAAAGCCTGGGGGTTG

Sequence 333

GCGAATTGGAGCTCCACCGCGGGTGGCGGCCGAGGTACTCTTTAAAAAAGTTTT
AGCATGTTACATATTCTAATAAGTGAAATTTTATGCTGNNCTAAAAATTTACTTCACTT
CCTCGNGTAAGGAATGCCTTGCTTAAACTCAATATATAAAAAATCAGAATTTTAAAAAAT
TAAAAACCAATTAGAAAATGGAAGTTTATTCACCTTACAAAATACTTGGGGATTTATTT
TTCTAAATTTTTTAAGTTATCTTTTACNTTTTTCACACAATTTTATGGTTACCCCTGG
GCTTTGCCCAATGGGTGGGGGGCCCTTTTGGAAAGGTTTCCATTATTCNCCCCTGGACCA
AGGNAAAAGGGGGAAGGAATCCTTGCTTCTGGAAGGTGGTTTGCCCTTAAAGGACCAAT
CTACCAAAAACCAAAAACCCCTGGGGNGGTNTTTNAATTTCCAGGTGTGGAAGAAAAA
ATGGAATAAATTTCTNGGTGAAAGGCAATCNTNGGGGTCTTNTTTTTTTTACCTAAAGC
CAAGGCCTCTTAGGNGGTNTTGGAGGCCCTAATCCGTTTNGGGGAAACCTGGGNGGGAAA
AAATTAATTTCTTCTTAAAGTAAGCCTTCTTTTAAAAATNGGGGANTCCCTTGNCTA
ACAGGAGGANGAACTTAAANGCTAATNGGGCTTCTTTTCTTCAGGGGGGCTTTAGGCT
CTAAAAAATGGGAAGTTTCTTTNTTNGGACTGGAAACTANGAGGAAAAAGGTAAAA

Sequence 334

GGCCNATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACTTGGCTTGCCCCGGAC
CACANGCCTCGTAACGGTAACCCCTGCTTTCCAGGGGCTGGCACCCCAATTTTAAAGNG
AAGCTGTGAAGCTCCTTTCTATTACTCATCATGCGATAAATACTATATCCGGTATTAGC
TATTGTTTCCAATAGTTATCCAGTCTTAAAGGTAGGTTAGGTACTCAGCAGGAAAGAA
AAAGCAGTTCTGGTTGTTATTTACCTCGGCCGCCCGGGCAGGTACTTGTATCTGGGCC
AGCTTGATAGGGAGAGAAATCCTAAGGAATGTAGAGATGATGACCTACCAAAATTTGGAA
CTAGACTCCAATGAGTTTAGTTAAACAAACACTATGGTGAAGAACTTTCTTCATTAGTA
TCTTGTCACCTTGGGGGAGTGAGGGGGACAGAATTTGCTCTTAAAAACCCAGGGGTGCT
TTCATGTGTTATTACCNATGGTCTTTGTAGGCCTTCCATTTNGGATTGAGTGGGTNAAA

Sequence 335

ATAGGGCGAATTGGAGCTCCCGCGGTGGCGGCCCGCCCGGGCAAGGTACGGGGGGCGCAGG
TCCAGGTGGCGGGGATATGCTGCCCAACTCCACCGAGCGGGCCATCACNATCGTGCGG
TGCCGCGAGTCTGTCAACCGAGTGTGTCAAGCAGATTTGCTTGGTCATGCTGGAGACGCTCT
CCCAGTCTCCGCAAGGGAGAGTCATGACCATTCGTCACGGCATGATGAGTTCTGAGCTGC
GGAGGAACCCCTCATTTCTTCAAAAGTAATTTATTTTACAGCTTCTGGTTTCACATGAAA
TTGTTTGCCTACTGAGACTGTTACTACAACTTTTAAAGACATGAAAAGGCGTAATGAA
AACCATCCCGTCCCCATTCTCCTCCTCTCTGAGGGACTGGAGGGAAGCCGTGCTTCTGA
GGAACAACTCTAATTAAGTACCTCGGCCGAGGTACCGGATTCTCTTTAACCCCTCCCC
TTTCGTGGTTTCCCCCAATGGTTAAATGTTTGGATGGT

Sequence 336

ATANGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACTTGGCTTGCCCC
GGACCACAGCCTCGTAACGGTAACCCCTGCTTTCCAGGGGCTGGCACNGNCATTTTTAA
GTGAAGCTGTGAAGCTCCTTTCTATTACTCATCATGCNATAAATACTATATCCGGNATT
AGCTATTGNTTCCAATAGTTATCCAGTCTTAAAGGTAGGTTAGGTACTCAGCAGGAAAA
GAAAAAGCAGTTCTGGTTGTTATTTACCTCGGCCGCCCGGGCAGGTACTTGTATCTGG
GCCAGCTTGATAGGGAGAGAAATCCTAAGGAATGTAGAGATGATGACCTACCAAAATTTG
GAAGTAGACTCCAATGAGTTTAGTTAAACAAACACTATGGTGAAGAACTTTCTTCATTA

Table 1

[illegible]

Table 1

CGAATAATTCAGGAAACAATGAGAGAAAAGTAATTCACACTTAATGTGTTGTTACTTAAG
AGATTTGACGGATAAAAATAAAATCAAATTAATCATTTGAAAAGGCANGGCTTAGACCC
CCTTAAAAACACCGNTGGTGCCTACCATAATTTGAGCACTTTTCATGAAAAAAAAAAAA
AAC

Sequence 343

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGNNGGGAACNANAGNANAACATAACGAT
GATGAATGCNNAANNTNCANNAACGGNGGANNGGNTGNANNGATGNGGNNCCCACTGTN
NNCANCNNNATTACATGACATNAAATCAGANACNANGGAGGCCCTGCTACAAAGAAGCAC
AAGATGTGGTGTTCCTTAAAAAGTCCTGTATGTGAGGAACTCTTTCATTTTCTTGGGGAT
TGGCAGTGCTAGGACTTGGTAAGTTGTAGGAACTTCGAAGGGCTTCCGGCATAAGTG
CTTCAAGTGAGGACAGGACCCTAGGAGCTGTCCAAGAACTGGA

Sequence 344

AGGTACCAGACTCTTATTTCTGAGCTTTTGAGAATTCATAAGATACCTGAGTCATTTT
AAATAAATTCAGCTTTCTTTACCAAATACCCTTAACCGGATTCTCCTTGAAATGACAT
CACTGACACCCATGGCATGCTGCATGCCACAGCTAGATTACTTTTGTGCGGCCACG
CACTTCTGCTTTTATTTAGGTGGAGGGCAGNAATCANAGATTCCCTCTTTGTTGGGATCN
TTGAACCCCTNGATTGATGCCACTTTTGGATAATTTCTAAAAATNCCATTACCATAAAAC
CCAAATTGAAATTATATTGNTGTTTANGAAAAAATTTGGCTTATNTT

Sequence 345

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACNCCGGCCTGCANAAG
CCCTCGTGGCACC CGCCCACTGNGTGCTGGGCCCTGTCTGGGGCAGCTCTACTCAGCC
ATGGGGTACTATATNTTTAGCTTGCAATGACATGACTCCAGAGCAAATGGCTACAAATGT
GAACTGTTCCAGCCCTGAGCGACACACAAGAAGTTATGATTACATGGAAGGAGGGGATAT
AAGAGTGAGAAGACTCTTCTGTGCAACACAGTGGTACCTGCCGGGCGGTGCGNCCGGGCA
GGTCTCCAGAGCCTTCTCTCTCTGNGCAAAATGGNACTTTTAAGGAA

Sequence 346

ATGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCCAACCTTCCATTCTCGCCC
TGCCCCCGGAGCCGAGTCTGTATCAGCCCTTATCCTCACACGCTTTTCTACAATGGCA
TTCAATAAAGTGACGTTGTTTCTGGAGAAAAAAAAAAAAAAAAAAAAAAAAAACCTG
CCCGGGCGGGCCCGGGCAGGTACAAGTATACATAAAATGGCATAAATGGCATAATTG
AACCAATTACTGGATTCAACTATATTAAGACTATTTCTTAAATCCTACTTCAGACTAAA
TTATTTTACCTACATTTCTTTCCATATTTTGAAGTCTGAGTCATTATTTTCCACCTTG
CACATTAAATAATTTAAATTTACATGTATCCCTTCTCAATAAGTTTAAATCAGCTAACCC
TAAGCTAGAGGTCAAATCTACTTCTCTAATATCAAACGAAATTT

Sequence 347

GGCNATTGGAGCTCCCCGCGGTGGCGGCCGCGGGGCAAGGTACCGTTTCTCAGCGGCG
GACTGCTGCAGTAAGAATGTCTTTCCACCTCATTTGAATCGCCCTCCCATGGGAATCCC
AGCACTCCCACCCAGGGATCCCACCCCGCAGTTTCCAGGATTTCTCCACCTGTACCTCG
GCCGCCCGGGCAGGTACATTTAATCAGTAAATCAGTTTACATCATGTATTGTGATGTTT
CAATGTGAGACACAAAAACAATGGCTTGAAACTTGTGTATCATATGTGATTTTGAATGA
ACACCTTGAATAGCACTAATTTTATTTGTGGNATTTTCTATAACAAAAACAAGTAGCTC
TAGGAAAAGAGGTTTATTTTGTAAACGATCATTTGTGACCTCAGACACTCTCTGGCTAA
T

Sequence 348

AATTGGAGCTCCCCGCGGTGGCGGCCGCGGGCAGGTAC/AACCAGCTCCTCTTTTGCGT
CCACACGGATCTGAGAAAGTGCACTGTAGGCATAAGCAGCT/ATCCTGGAGACCTGCTGCA
AATCAGAGAACGGGATGGGCTCACTGGCCAGCACTTGGTG/GGGGCTGGCTGGTAAGAGAC
GGCAGCGGTGGCAGCTTCTTCCAATGGGTGAGGCTGCTGCTCAGCACAGCCAAGCGGGTG
CTGTACTCATGACGGAAGTTGCCGCTCGCCCACTTGTGCA/GCAGCGTACATCATTTAAAT
AACATAAATGACTTTTACACAGCTTGACCTAGGAAAAAATAAAATCCATCATAGCCACAG
CTAAAAAGCATGTTAAGATTCACAATAAGAATTTGTCTCTTATTATAAAGAGAAGAGC
AATCATATAACCTCCTGGGGGTGGGGGAGACCTCATAAATATTTTATTATTGATTGACAA
AACAGCATGCT

Sequence 349

GGGCNAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGATTTAACTCTGTATTACT
GAACTTCTTTGAACATTTTGAACTTTGAATCTCTTCTCTGAATAACTGCCGAACTCAA

AGATAATAATTAGTTGATGAAGGTTATCAATTAATAAAATAACACAGACCAGTCTTACCA
AACTCTAAATACATTTTAAAAAATAGAACTGGCAATGATAAAAAGAATGTTGAGTACCT
GCCCCGGCGGCCGCCCGGGCAGGTAAGATTCTTCTTCGGTGGAAGACAATGGATT
TCGCCTTCACTTCTCTGCTTAATATCCACTTTGTGCCACACAACACAATGGGGATGT
TTTCACACTCGTACCATAGC

CCGGGCAGGTACAACCTTAATAGCATNCTAGGGTAAAGAGTAACATATCCCCAAGAAAC
AGAACTAAAATATTTCTATTTTATGAGAAGAGTGAGTNAGAACAACAGGGATACCTNN
CTCACCAGCCNNCACCTTAATAAACATTNATTTCCATACNAAATCCACAAGCCTTTTCGG
TCAGACTTTAAGAAATGTATNATTCGAAAAACAATNAGTTTATCTTCAATTTNAAAAA
ATNTCANTTGAAGAAGACATNAATAAACNAGTGGAAATCTTTGGCTTNAACAATATT
GGTTACAAATTTNCCCAAAAAGGGGTTTNAATAAACCCTTTANTNAGNGTTATAAAAN
TANACNCNGTTAAAAATTAANTTGGGNAAAAATAACNTATNTTTAGNTTCCCTTGCGGG
GCCCCGTTTCTNAANGAACTTAAGNTTGGGAATCNCNCCNCCGGGGNCTNGCTAAGGGG
AAATTTNCAATTATTTAAAGCCTTTAATTCGANTTCCCCGNCNCGAACCCTTNGAGGGG
GGGGGGGGCC

TTAGGCGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATGCAGGGAATATTACAAT
TGCAATCATTATTTTAACACCATCTCTCCCCCTCTTCCCTTCCCAAAAGATATAAGAC
ATAAACCATCATCTGCTGCCAAATAAATCCTGAAATCTCAGGGGGCGATGCTGGGAAGGTAT
GAAATTAGAGGGAGGCATGTGCTTTTGCACTTTCAGATCAATGGCTGAATCCGACCC
GGGGAAGCCTTTTCAGATCCGATGTAATTTGTTTAAACAATGCTGTTTCATCTGCCACG
CAGCAC TTGTAATGCCGCAGGGAGGAACTTGCAGCATTTCTTGCTCACTTCAAGAAATCA
ACTATAACAAACCTNTTNCAGAAGACTACCGACATNCATATTTCTGCAATAGTTAGATAA
AAGTTAAAGAACTGGTCCCTTTTGTGAATATTCACAGTCCACTGCATATAATCGGTTTA
TGA

Sequence 532
GGCGATTGGAGCTCCCGCGGTGGCGGCCGAGGTACTGCACGCTAAGTGATGCTCTCTTG
TAATTGAAAGAGAATGGGTTCCCTTCAAACCATATGCTATTACTAGTCTCTGAGTGCCT
TCAAAGCACATACTCTCTCTTTAAAAATCCAAGGATCTTGCCTTCAAAGACACAAATGC
AGTAGTTTTTCATTTCTTACATTCACTTAAAAATGGATTATGATTCAGCAGGCCAAATCTG
CATATTAATATAGACAACCCCAACACAGTATCTGAACGTTAAAAGAAATCTATCACGAC
AGACATTTTACCTAGTTATAATAACGTAACAATAGATCACATCTAGATTTCTTAAACAG
CTCACTCAGGAGTTTCTCTCTTTTAAAAATTAATAACTTATGCTACACAGGCCAGC
CATGTATTTACCATTGGCGAGGGTCAACATTTACCATCTGGTTGGCTGGCTCAAA

CCGCGGTGGCGGCCGAGGTTTTGCTTTTTTGAAAAAGGTAAGTTGCTGATTAAGTCTAA
TTGGAATTGATAATTCATAGCTTAGATAAAAATGAGGATATTTTCTCTAGATTTTCT
CATGTTATGCCATGCATTTATATATCTAACCAATTAAATTTACACATAGGATGCTTCACCA
TATAATAAAAGGAGCAAGATGGAAGCACTTTGAATTTTCTTTTCATTGAGAATAACTGTTT
TATGTAAGAATCTGTATTTATAACACCAGATATTAAGATAGGCTTCCATTTTTTAATGCA
AGCCACTTACTTAATCTTGATTTCTTTTCAGGCACTCAAATAACTAGCTTTGAAACATAAT
ATTAACCACTACTTATAGATAAGATTTATTAATGTTAATACCTAGTGGAATCCCATGTG
GCATCCTGGTTATGTTATCGGTTACGCGTTAATCCTATAGAAAAAGTGGTTTGGAGG

AGGTA CTGTTAGTTGTTGAGAAACATTTTAGGCAGTAAATAAAATAGTAAATATTATGT
GTCCTATAATTTGACCTAAGCTGTGTGCCTTTGGAATCAGCTCTAAGCCAGGGCCCCCG
GGAGTCATGTTAAGTAACACGATCATAAAGTGACATACATCAAGGTTATCTTATATAGTC
ATAACAGATATTATGGGTCTTTCAAAAACAGCTGGCAGATTGAGCTTTTAATGGCTATAT
TGATACAGTAGATAGAGCACCTTCAAGGAGTCCTGCCCGGGCGGC

GCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCAGAGACTATGATTTATATTGAT
TGCAC TTGCCTGCCATGATTTAGATAAGATTTTTTGCATGGTTTTATTCTTCCCTAAC
GGATCCTGTTTTATAATATCTCAAGCCTGTCCATGGATATACAAATGCTTCACATGT
ATATTTTCATGGCTAGGTATTTCTAATGTTTATTTCTCCCTGTGTACTGCAGGGGAGTGT
CTCGCGGTCGAGGGACAACAGCCTTTCTCTTGTCTACTGCTGTGATTTCTGTCTGTTCCG

Table 1

TTTTTCCTTCTCACCATCTTTCTGTGTGCTGTTTTCTTCATTCTGATCATGGTCCCCAC
 TGTTCATCATCTTTCAAAGCGTCGAACCTGTTGTTTCATCCTCTCGCCGCCGCTGTGCCCCC
 CGCGTACCTGCCCGGGCGGCCG

Sequence 356

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTAAGTGCATGTTACATATTCTTCTTTAA
 ATTTTGTAAATAAACATTGACAGTGTTTGGTAGGCACAGGGAAACAGGATAACGTAGAGTC
 ATTACAGAAGAAAAAACTTATTGCTAACATTGCAGTATTCTTTTATCAGAATTAGGTG
 AGTATTGATTGTAAAAGCTCTATCAACTCTTGCTCTTATTGATGACTTTGAGACTTTTT
 TACTCTTGCTATAAAAAGAAGGCTACTTTCTTTCCCTAATATATTTCTACCAATGCGAAT
 AATTGAGGAAACAATGAGAGAAAAGTAATTCACACTTAATGTGTTGTTACTTAAGAGATT
 TGACGGATAAAATAAAATCAAATTAATCATTGAAAAGGCAGGCTTAGACCCCTTAAAA
 AC

Sequence 357

CCGCGGTGGCGGCCGAGGTACCTCTTTGCCTTAAATTGCTTTTTAGTTCTAAGATTGTAG
 AATGATCCTTTCAAATTGTAATCTTTCTAACAGAGATATTTAATATACTTGCTTTCTT
 AAAAAACAAAAAACTACTGTCAAGTATTAATACTGAGCCAGACTGGCATCTACAGATTTC
 AGATCTATCATTTTATTGATTCTTAAGCTTGATTAAAACTAGGCAATATCATCATGGA
 TACATAGGAGAAGACACATTTACAATCATTGTTGGGCTTTTATCTGTCTATCCATCCA
 TCATCATTTGAAGGCCTAATATATGCCAAGTACCTGCCCG

Sequence 358

CCGCGGTGGCGGCCGAGGTACTTCTTTTCCAGAGCAGGTGGCACAAAACGACCCCCCAGG
 TAATGGTAGCGACCGGTAACTGGGTTGCAGATTTTTGGGGGCTGTGAGGGAGATGAGC
 AAGTCTGGCTGGATCCCTCCAGCATTTCCCTTCTCCAGCTCCCATCCTGAGGGAATGTCTG
 ATGCTGGCAATGGGCACAGTGAGTCCCTTCAGGACACTCAGGATGCTGTGGAACGGTTCC
 CGAACATCGCCCTTGAAGCTGAAGCCAAAGATGGCATCCACCACCAGCTCATACAGTTCA
 TCAATCGTCATGGGCTCTGCGGGCATTTCCCAAGGAAAGGGATGTCCATTTCTGACAC
 TGGGTACCAATGCAGTGAAGAGGGGCTTGTAGGCCCTTTGGGGTAATAGATGGTTGGC
 TCGTAGCCAAAGAGTTTGAGGTGTCGAGCACAGACCAGACCATCTTCTTATTATCCCC
 G

Sequence 359

CCGCGGTGGCGGCCGAGGTTTTCATGCATGCAGACTTTTATTTAACCTCATTGAAATTAA
 AATTAGCAATTTAAAATACAAAATATAGCATTTTGGTTTTTAAAAATCACTATCTTTGTC
 CTTTAAGATAAAAACAAATAGGGTTGGTCACCCCTTATATGTCAACCCAAAAAGTATCAA
 AATACCTTGACTGCATGAAAGAACAGCTTCTTAGGNCATGCATTTTGACTGGGCTTC
 TGCCAGATGATACCATCCACTTGGGCAGACAGGGCTTCTCTTAACCCT

Sequence 360

CCGGGCAGGTACCAGCGCGTCCCATACGTGGAGCCGCCGAATACGAGTTCTTTGGGGC
 TCCCGGGCCAGCCGCGAAATCACCAAGATGCAATCATGGAGTTCTGGCCAGGGTCTTT
 AAGAAAGACCCCCAGGCTTGGCCCTCCCGATACAGAGAAGCTCTGGAGGAGGCCAGAAGC
 TCTGCGGGAGGCTAATCCCACTGCCACTACCCTCGCAGCAAGTTGTCTTCTGAGGACTA
 GCCAAAGTTCTGGGAGGNCAGATTGAATGGGTTTTCTGACCCCTCAACNCANGGGCTT
 GTTGGGAAAGGGNAGGGGTGGCTGGCGTTTCAATATAGGTATTTCAAGGGATTTTAA
 GGCTGGCAANTAAATTTNACNGTTNTAAACCTTTTTTAAAGTATTTCAAGGTNACCCTT
 CTTTNCGCNTCTTANGAAACCTAAGGTGGGGAATACCCCNCGNGGGCTTTGCTAAGGG
 GAAATTTTCCGANNAATTCAAAGNCTTTNATTTTGANTACCCGGCTNCGTANCCCTTCCC
 AGGGGGGGGGGGGGGGCCCCGGGTTAACCCCAAGCTTTTTTNGTTT

Sequence 361

CCGGGCAGGTGTGTGATTACGCGAGTACTCGCTTCCATTTTATGACCTTTCAACTAT
 AGGTAATAACTCTTAGAGAAATTAATTTAATATTAGAATTTNTATTATGAATCATGTGAA
 AGCATGACATTGCTTCACAATAGCACTATTTTAAATAAATTATAAGCTTTAAGGTCACTT
 ATACTACCAATAACTTGTTAAATCAGGATTTGGCTTCATACACTNGAATTTTCAGNTATT
 TTATCTCAAGTAGNATATAGACACCTAACCTTTGATAGTGGATACCGTTAGGAGGGGTTT
 CTATTCTTCCATTGTACCTCGGGCTCGCTCTAGGAACTAGGTGTNATCCNCCCGGGGCT
 GCAGGGAATTCCGATATCAAGCCTTTATCGATACCCGCCGACCTCNGAGGGGGGGGGGCT
 CGGTACCCAAGCTTTTGTTCCTTTTGTGAGGGGGTTAANTTGCGCGCTTTNGCGT
 AATCATGGNTCATAAGCTNTTTTCCCTGGTGGT

Table 1

Sequence 362

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTCTCCTTCAGGGGCATC
ACCCACCTTGCGGAAGTCTGCCAGCTGCAGCCAGCATGTCTTCAGGCTACATAGCCCGGA
CATCCCATGGCACTTGCAGGCCACATNAGCCAGGTTGTACAGAAATTTGNATATATGATG
GCTTTAGAAACTGTTTTAATTTTTGTGNNCCTTCTGTTTTATTAATAGGCGTCCACCA
ATGATTATCCATATGTGTTCTTAATTTTTAACTGCTGGAAGTGTAAAAACACACACACAC
ACACACACACATTTTTTTTTGAGAAGTCCAAAGTCTGAAAATTTTGGTGACAATGAT
TTTTAAAAAACTAACTTTGTATAACCTAATATTTGNATTTCTCTCATCTAT

Sequence 363

[illegible]

Sequence 364

CCGCGGGTGGCGGCCGCCCGGNCAGGTACAATGTTGTTATGGTAGAGAAACACACATGCCT
TAAAATTTAAAAAGCAGGCCCAAAGCTTATTAGTTTAAATTAGGGTATGTTTCAAGTTT
GTATTAATTTGTAATAGTCTGTTTAGAAAAATCAAAGACCATGATTTATGAACTAAT
GTACATAATTTCCAGTGACTTGTGGATGTGAATCAGACACGGCACCTTCAGTTTTGTA
CCTNCGCCGCCCGGGCAGGTACAAAAGGGATCAGAAGGGCAAGGGGCATGCTAACGTCA
TCGGGGGGGGCAGTCTCCAAGTCGCAGNCNCGTGGCCCCCGGAGGCCGGTGGCTATCTGAA
CTCATGCAATTCGC

Sequence 365

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTGCAGAATCTG
GTAGACTGCTCTGGGCCTCAAGGCAATGAAGGCTGCAATGGTGGCCCTAATGGATTATGCT
TTCCAGTATGTTCCAGGTAATGGAGGCCTGGACTCTGAGGAATCTTACCATATGAGGCA
ACAGAAGAACTCTGTAAGTACCTCGGCCGAGGTACTGGTCTGTGGCCCTGGGGGTGGGGAC
CCCTGTTTTAAGCAGTTTAAGAATTATCTTTTTCAGAATATCTACCTCTACTGGGATAA
GATCAGCTTTCTTTACTGTGAGCACAAGGTAGGTGCTCAATAAATGGCTTGTGTGCAAGA
ATGAATGACCGGCCCTCTAGAACTAGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAACGTCGACCTTCGAGGGGGGGGCCCGGTACCCACTTTTGGTTT

Sequence 366

CCGCGGTGGCGGCCGCCGGGCAGGTACACTGTACCTGGAAGTGGTCTTCTTCTGGCA
CACAAAGCGCTCGTCGCCACCGAAAAGTTGAAGCCCTTGCCGCATCCACGCGGTAGGT
GAGCATGGCGAGCTCTTTGTAGTTAGCATCGTACCTATAAAGTAAAGCTAAAAATGATTT
ATCTGTGAATTCAGATTTTAAAGCTTCTCACTCTGTGAAGATGATCATTTGCCCTTAAG
GACAAAAATGAACTGAAGTTTCACATGAGCTATTTCCATTCCAGAATATCTGGGATTCTA
CTTTAAGCACTACATAAAGCTGCTTTATCCTCAGACTAGCTGAATGATTTTGTGCTGTTT
CAGGATGTTTGCACCTGAAGAATAACAGAAAGCTTATCTGAAATTTATAAAACATTTTGT
TTGCTACATAGAAAAACAGAAGGTA

Sequence 367

CCATAGGGGTTTATGGGANCTNCCCGCGGTGGCGGCCGAGGTTCAATTATTTCCNTGTCTN
CCAGGANTTGTGGCGCAAGAAGAGGTAGCCTAATAANCCAAAAGTTTACTTAGATCTT
TCCGTCTCTGTTCCAAATCATGACGGACCCAAGTAAGAAGTGCAATTCAAATATTGTCTCCT.
CATTAGGAATGTTATGTATCACTACTAGCCAAGAGCTTTGCAATTTTCGTGGCTGGTAATA
ATACAAATTCCTGGTTTCTGATTACTTCCATGAAATGCTCCATAGTATAAATTGTGAGCCA
CTTTATGCAAATCTGTACCTGCCCGGGCGGCCGAGGTACTGTATTAGAACACTGGGTGTG
TCATACCGTTATCTGTGCGAGAAATATATTTCCTTATTGAGAAATTTCTAAAAATTTAAGTTC
TGTAAGGGCTAATATATCTCTTCTATGGNITTAGATGTTTGATGTCCTTCTAGTAATG
GCATAATGTCATGATTACT

Sequence 368

TNCTTAGGGCGCAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGGAGTTTCCCTATTT
TGGTGTT CAGCTTGAAAAAGGACTTGTCAGAATCAACTGTGTCATCAAAATTTAAGTAAT

Table 1

GTGCATTGAAAAATAAGGTTGATCATGGGAATATGCAGAATTTCCAATGTATTTTAAATA
CAAATAAAATTGTAATTTAGAATTTTAACTTAGGTTTCTTGATTAATTTATAAGAGAT
CAATTATTGTCAGTCTTTTTGTATGTTTTTAAAAACATAGTCCAGAGCATGGGCAGAA
TTGACACCTCTCTTTAAGTGAAATTTGGATTGCTCACAAAGCACTAGGAAATGTCATGG
GGTTCAAATATATATCCTACACAACCTGGGCAATACATTTTTGTTTGATTTTTAGGTCTGT
GTATACATTAAACAGTTCATGTAATTAATACCTGATCATTTGGGACAATGAAAGGTGAAAG
TTAGTTGTAGATGAAGTAAAGTTATAAAAGGAGATTAATAATGC

Sequence 369

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATTTTTGAAAAGCACAA
TAACTTGATTAATTGCACTTAACACAATGAACCTTTAGTTTCCAACCAGTTTTCATTCT
CTGCAGACCCGGGCTTTCTTTTTATAAAAACTGCTTCAAAGGGCATAGAGACACACAC
ATGGTCCACAGCAAATTCAAATAGAGAGGTGCAATAGTTGCAGTGGTAAACACACAAAAA
AATACATTTTTTTGGACTAAAAATCTGGTCACGGATAAAAGCATGTGCTTTTCATTCTT
CTCTGGGATGTTACAACAGCAACACGCTCTAAAACAATTAAGTTACATGCATAATGCCAA
AAGAATGTGAGCAATCCTATAACCAGCTTTAAGCCATCTGCTTGATTTCTTTTTTTTTT
TGTAAGGAACATATATAGGAAAAGAGAATTNCCCTTTTGTTCATTACATATAGAAACCT
TTTGAAGCTTTCAANAGCTTTGGGTTT

Sequence 370

TAGGGCGAATTGGAGCTCNCGCGGTGGCGGCCGCCCGGGCAGGTACTGCGCCATCTGGG
ACACCTTGTTTCCCANCTGGGAGGCTTCAGCCCCGGGCAGCATTTGGCCAGCGGCTCAATGA
GATGGGAGATCTCTTGGACTGCAGTGAGCATCTGAGTGTGCAAGGCCTNTTGAGAGATTC
CCTCACGGGGAGCAAGCTGNTGGCTTGACTGCAGCGAGNGAAGCCNTGNTAGTTNCCA
TTNNAAAAAATNTTTAAATCNTCCAAANGGATTTTTTAAAAAATTTGTTTTGCCCAAN
NNNNTTNAAAAAAAAAAAGGGGNTGTTTTTNTTTTTTNAAAAAAAAAAATCCCCCCCCC
CCCTTTTTTTNTAAAAAANNNCCCNCTTNNNAAAAAAAAAAATTTTATTTNNNN
TTNTATAAAAAAAAAAATNTTTTTTTTTTNNNGGNTTTNNCCCCCCCCCCCCCNC
TNCCCCNNNCANAATAAANTTTTTTTTTTTTTTTTTATNATAAAAAAAAAAAAAAN
AAAAAT

Sequence 371

GATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGNCAGGTACTCTGGCGTGCAACCTGGAAT
TTTTCGGAGGTATTTGAGGCAAAATACCAAGGGATTTATAGAGGATGAGTTGGTGCC
CTTTTTGAGAAGGCCGGACCCATTTGGGATCTACGTCTTATGATGGATCCACTGTCCGGT
CAGAATANAAGGNATGCATTANTCNCCTTTTNNGGAAAAGAACTGCNNAAGAAACCN
NGAAAAAANGGNGGANAAAAANTNTAAAAANTTTCCCCCTTGAAAAAANCCTTGGGGGG
GGGNCNTTTTTTTNGGGGAAAAAANNTNTTTTTNNGGGGGNCNCCNCCCCC
CNAAANTTTNANNTCNCNTNAAAAACCCTTTTTTNNNGNNGNGNAAATTTNNTATNTTCC
CCCCNNNGGGGGGNGGGGGGGGGGNNNTTTTTTTTTTTTTTTTNCCTCCNN
NNAAAAAAAAAAAAAAAAA

Sequence 372

CCGCGGTGGCGGCCGAGGTACCTGAGGAACATAGATTCTCTGCATCTTCTCAAGGGGAA
CCCTCTCCAGCTTCCCTGGTGTGACCTTCACATGCCAGATTGGGTAGGATCACTTTGAA
CTGCCTGAAGTTCAGGAAGGTCATCAAGCTC

Sequence 373

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGTACATTTCCATGGGCCCT
GTTCCCATTTGATGTATACTGCTTCTTACTAACAGTGAGGGATGACTTTCATCAGTCTTT
TATCACCTGAACAGTCTTCCGGCCATAATGATAGTAACTATAAGCTGATGCAGCTGTGGT
GAAAGCTGTAAACACCTTTTATGGAAGAAAAGAAATAAATGTAGTTGTCAAGTCTAAA
AAATAGTACCAACGGGAATCATAATGAATACATGCNATGAATTTAAATGNNAATGAA
TCTAAAAAGTAAAAAGGGCTCTGNGGTGTAATTTTCTTAACATAANAGTCTAAATACA
CTGCTTTTCTTAAAGAGTTCATTTTAATTAGNAACCGTCAAACAAATTAT

Sequence 374

ACTACTCAGGGCGAATTNGAGCTACCGCGGTGGCGGCCGCCCGGGCCGCGTGAAGAGGA
AGAAATGCCNNGAATTCAGGGTGGGGCTGGGGCTGGAGACGAGGAGGAGGATTAAGT
CCACCTGTCCCTCCTGGGCTGCTGGATTGTCTCGTTTTCTGCCAAATAAACAGGATCAG
CGCTTTACACCATGTTGTTACATGTAAACAACTTCAATTTGAAGTGCAGCTATTATGTG
GTATCCATGTGTATCGACCATGTGCCATATATCAATTATGGTCACTAGAAAGTCTCTTTA

Table 1

TGATACTTTTTATTGTACCTCGGCCGCTCTAGAACTAGT

Sequence 375

CCGCGGTGGCGGCCGAGGACAAATGTGGTGTGTCTTCCAACCTTTCATTGAAAATGCCATA
TCTATACCATATTTTATTCGAGTCACTGATGATGTAATGATATATTTTTTCATTATTATA
GTAGAATATTTTTATGGCAAGATATTTGTGGTCTTGATCATACCTATTAATAATGCCA
AACACCAAATATGAATTTTATGATGTACCTGCCCG

Sequence 376

ATACACTACTATAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGCCCGGGCAGGTACGA
GTTTCAGCCTGACCCGTGAGACAAAGAAGCACGTGCTCTTTGGCACTGTGGGGGTGCCTGA
GCACACATACCGCTCCCGAACCAACTTCACCAGCAAATACAACATGAAGGTCTCTACTT
ATCCGCCTTCACTAGCAAGGACGAGGGCACCTACACGTGTGCACTCCACCACTCTGGCCA
TTCCCCACCCATCTCCTCCAGAACGTACAGTGCTCAGAGACAACTGGTCAAGTGTGA
GGGCATCAGCCTGCTGGCTCAGAACACCTCGTGGCTGCTGCTGCTCCTGCTC; CCCTCTC
CCTCTCCAGGCCACGGATTTTATGTCCCTGTGACTGGTGGGGCCCATGGGAGGGAGACA
GGAAGCCTTCAAGTTTCCAAGTGAAGAAGATCCTACTTNTTTTGTAGTCAAGCTGACCCC
CTCCCCCAATCCCTCAAACCTTGAGGGAGAAAGTGGG

Sequence 377

CNGGTTTCGCTGTGTGCCTAATACATGCATGTTGAACGGGATGTAGCAATACATTTCAGTAG
CGAATGGGTGAGTAACACGTACCTAACCTACCTTTAAGACTGGGATAACTATTGGAAACA
ATAGCTAATACCGGATATAGTTATTTATCGCATGATGAGTAATAGAAAGGAGCTTCACAG
CTTCACTTAAAAATGGGGGTGCGGAACATTAGTTAGTTGGTAGGGTAATGGCCTACCAAG
ACGATGATGTTTAGCCGGGCGGAGAGGCTGTACCCTCGGCCGCCCGGGCAGGTACAAGAG
TGATGGCAATGTGACTGGAACAGAAATAGTTTCTACCAGGCACACAAAAGCTTCTGTAAG
CCCCGTANTTCCGTCCTGCAAAGGGCCTTNAGTGGGAACCAGGTCTGCAGACCCCACTGG
GCANAAAGACCGGGTGAAGCAGG

Sequence 378

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAAAGGAGAAA
AACTATGTCTAAGGAGGGAAGCACATAATAGAATTCTATTATTACAATAGAATTCTATAA
ATACAAAATTGGATAAATTTATCAGAAGCAGGTGTTTGTACCATTTTATATGTGAAAC
TCAGGAAGTCTTGATTTTTTAAGAGCTGTATTCTTAATCTGGTTACAGGCTATAAAGG
AGATAATCATTTACATGATCATATTCTCAAACAGATGGTCACCAAATGGAATCAAAGGAC
TGATTTGATGTAGCCGGTAGTATGATAATTTTTGTAGGTTAAATGGAAAAATACNGGATA
GGATCCNAGAAAAATAANGTAATTTTNCAGGTAGGCCNGGTTTAATAAAATTACCAGGA
CCTAGGAATAAGCCAATTTTA

Sequence 379

CCGCGGTGGCGGCCGAGGTCCCCCTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTGACAGCAG
CATCTGTTTTATTGACAATCCAGGTCATTCTTAACACGCCGNANCAGGGCTNTGTACCTG
CCCGGGCGGCCGCCCGGGCAGGTACTTCATGAAGCANACCATTGGGAATTCCTGNGGCAC
AATCGGACTTATTCACGCAGNGGCCAATAATCAANACAACTGGGATTTGAGGATGGATC
AGTTCGTGAACAGTTTNTTTNTGAAACAAAAAAAATGTCCCTGAAAACAGAACCACAAA
TGCTTTTGAAGAAAAANNGGGCCTTACCAGGCAAGCCCAATNAATGCCCGGGGCACAA
AGNAAGGCCCAATTGTTNGGGGTAAAAANAAAAAGGGGGGA;AATTCCCCATTTTTNT
TTNTTTNTTNAANANCCCGGGGGGGGGNCCCCNTTTTAN;AAAAATTGGGGGGGGAA
AAAATTNNTTTTTTTTTTGNAAANAAAAANCCNCGGGCCCNANAAAAAAAACCCCC
CCTTTTGANGGANCCNCCNNTTANANAAAAAAA

Sequence 380

ATTGGAGCTACCCGCGGGGNCGGCCGCCCGGGCAGGACCTCTTTGCCTTAAATTGCTTT
TTAAGTTCTAAGATTGTAGAATGATCCTTTCAAATTGTAATCTTTCTAACAGAGATATT
TTAATATACTTGCTTTCTTAAAAACAAAAAACTACTGTCACTATTAACTAGGCCAG
ACTGGGCATCTACAGATTTTCAAGTCTATCATTTTATTGATTCTTAAGCTTGATTAAAAA
CTAGGCAATATCATCATGGATACATAGGAGAAGACACATTTACAATCATTCATTGGGCCT
TTTATCTGTCTATCCATCCATCATCTTTGAAGGCCTAATATATGCCCAAGGACCTCGGC
CGCTCTAGAACTAGGNGGGATCCCCCGGGCTGCAN

Sequence 381

TAGGGCGAATTGGAGCTCCCCGCGGNGGGCGGCCGAGGNNCTAAGCCCCAGGACCNATTGG
TAGACGACNTANNANCNNAGGCGCATNNCACTGAAACANGTCAGNGTATATGNTGGCAGG

Table 1

TATTAAANTTAAGATGAANGNNGAAGCAAAAAGATTACAAGAATTAGCNGTAACAANAT
TGATGCTNAAGAGACATNATTGTACCTGCNCN
Sequence 382
TNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTAAGTACTGCCGGCAT
TGCTTTAGGGGTTAATAAGGTTAACCTATGGTTACAAAACAAAGGGTAAGTGAAGTATT
GAGTAAGTGCCTTCTGTAATATGGGGGAGAAATAAATTTTTAAATTTGGTTTATTTAGAGGA
AAAATTTTGACTTAAATTTAACTGATTTGGCACATAAGCATTGAGAGTGTATTTGGTT
AATGGTTTAGAAGCAAACCAGCAAAGGAAAAAGCAAACCTAGCAAACCTTTACAAAT
GTTAAAGAGACACTGCTCCATTTAAGCAGTGGGGTCAATTTGAGTTTAAATGAATCCCC
ATCAAATGGGTGGTATAGTAGATAGCTATGGTGTGGTTTGAAGGGTTTGTAGCTTGCAA
GGACGTGCACTAATAATATTTATATGATCTTTCTGGTTGGCAGGACCATGGATGAA
Sequence 383
CCGCGGTGGCGGCCGAGGTACACGGATATCACCTGAATTATTAATGAATGCCAGGAAGT
AATTTCTTCTCATTCTTCTAAAACCTACTGCCTTTCAAAGTGCACACACACGCGTCCACA
TACACTGCATTGCTTGGCTCCAGTATAAATTACATGCATGAGCACCTTTCTGGCTTTTAAAG
CCAATATAATGGGCTGCAAAATGAAGACACCAGAGTGTATGCATACAAATCTCACTGTAT
TAAAGATGCAGGTTTCTAATGTACCTGCCCGGGGCGGCCGCCCGGGCAGGTACCCCCACC
TCCCTAGCCCTCTGTGCTTCAAGTCTTCTTTGACCCCTTCTGCTCTCCACAGCAGGGC
TCTCAGCTGCCAGCCAACCAAGCAGGATGGTGCAACAACCAAGACCTAAAGGAAGGGACCT
GGGGAAGAAGAGAAA
Sequence 384
CCGCGGTGGCGGCCGAGGTACACATGCATGCATACACACCCATACAAACATCTGTGTGAG
GGCAGTTCTGGAGATGAGCAGAGAGAGACCGGAATAAAGTCAATCTTTCTTTCCCAAGC
TCCTAGCCAACACTATCCTTTGGGAGAAAGAAAAATTTGCAGAACTGCTAAGACCAAGTGT
GGAGATGTCAAGCTAGTTCACACTCTGAGGCTCAGAATATGTAGGACATGCACAATTTGTG
CAGTCTTTGGGATTGGGAAGTGAACAGTCTGTGATCCCCTACCTTCTAGGGAAGTAGG
ACCTAGGAAGAGGTAAAGATTATCAGGTATGCAAAGCGCCCCAATTTCTTCTGCTGCCATG
GGGGGGATTTTACCCCAACTCCAGGGGTTTCGAGGCCAATCTGAGAATGGCTTAA
Sequence 385
AGGTACCAGACTCTTATTTCTGCAGCTTTTGAAGATTCTAAAGATACCTGAGTCAATTTT
AAATAAATTTAGCTTTCTTTACCAAACCTACCCCTAACCGGATTCTCCTTGAAATGACAT
CACCTGACACCCATGGCATGCTGCATGCCACAGCTAGATTACTTTTGTAGTGCGCCACAG
CACTTCTGCTTTTATAGGTGAGGCAGAATCAAGATTCCCTTTTGTGGATCTTGAACCT
GTTTCATGCCACTTTGATATTCTAAATTCATACATAAACCAATGAAATATATGTGTTAGAA
AAATTGCTATTTCTAGCTGGACGCGAGTGGCTCATGACTATAATCCTACCA
Sequence 386
CCGGGCAGGTACACTGCGTTCCAGGCTGGTGTATGGGGTTGATCCTTATCGGTACAGTT
AGATTAGCTACTATGATGTCTACCCTGTTCTCAGGAACCTTACCATAAAACGTCATGGCA
GTAAACTCTGGAGGATTGTCAATTGACATCTGTCACTGTGATGACGGCCGCCCGGGCAGGT
ACATGGTTGATTTTGTGCTGTTGTTGGACTGTAACATCCATGTTGTCAATACGTATACC
TTGTAAGTGGATAACTTTCTTTTCCAGGCCAGAGAATTCAAATTTGTTAAACATTGG
CATTTGAAGAGGAGAACAAAATGTAGCATGATGTATTTAAAGTAAGGCCTTTAGTAA
Sequence 387
CCGGGCAGGTACAGGAGTTTCCCTATTTTGGTGTTCAGCTTGAAAAAGGACTTGTGAGAA
TCAACTGTGTCATCAAAATTTAAGTAATGTGCATTGAAAATAAGGTTGATCATGGGAATA
TGCAGAATTTCCAATGTATTTTAAATACAAATAAAATTTGAATTTAGAAATTTTAACTCT
TAGGTTTCTTGATTAATTTATAAGAGATCAATTATTGTGAGTCTTTTTTGTATGTTTTT
AAAAACATAGTCCAGAGCATGGGCAGAATTGACACCTCTCTTTAAGTGAATTTGGATT
GCTCACAAGCACTAGGAAATGTGATGGGGTTCAAATATATATCCTACA
Sequence 388
AGGTACCCAGTATTTCTAATTAATTTACATGCTAAATTAATGAAAGTAACAAGATTGT
AATTTTTTAAAGTCAGTTGATTAAATGCAATAAATATTGGGTTGCTCAAATATGCCACAA
ATAACTCGAAATTTTCAATTTACTTTCAACAGCATAAGATTCTTTAATATTTAGGATTGA
CTGNTTCTTTCCAGTTAAGCACTGAAGGATTATGTCTTGTAGCTTCCCCAAGAGAGGGG
AAGGAAAAAAGCACTATGTTAAGGATAATACAGAATCTTTTGAATTTTTGGGTAG
TACCCTGCCCGGGCGGCCGNCAGGTACCAAGTGGAGG

Table 1

Sequence 389

CCGGGCAGGTACTCTTGGATGTGTTTTCTACCAAGATGAGCAAAGAAAGGTTTGCACAG
AGGAGTGTGAATGTGTGTTTGTGCTGGCTGAATGGCAATAGATGTCTAAGGTGGATTCA
GTGTCTGGCACACTGAGACACCTCCAAGAAGGAGATTGATGCATCANGTTCAGTTTAACC
TGGAATATCTGACTACCCCTGAATCCACCCAGAAAGGGGGGCCAACACCCCTTGTCCATTT
ATGGGTATTTTTTTTCGAAGTTATTAAGCATATTCCTTTTCCACGAACCTCTTCTGTACC
T

Sequence 390

CCGCGGTGGCGGCCGAGGTGTTTGAGTTTGGTTTGGAGCAAACTGAGGTAGTCCTAACA
TTTCTGGGACTGAATCCAGGCAAGAGAAAGAAGAAAAAGAAAGAAAAAGAGGAGGAAA
AAGGTAGGGAGAAATAAAGGGAGGAGAGAAAGCAGTGAAGAAAAAGTCCCTTTT
CGACATCACATTCTTGTGNTTCCCTCAGCCTGGAAAACATATTTAATCCCAGTGCTT
TTTACCGCCCCGAAACAAAGAGACTAAGCCAGACTTATGGGGAAAGGNAGATAAGAA
GGATCCTGGAACCTTNAAG

Sequence 391

TGCTTCCTTACTAACAGTGAGGGATGACTTTTCATCAGTCTTTTATCACCTGAACAGTCTT
CCGGCCATAATGATAGTAAGTATAAGCTGATGCAGCTGTGGTGAAAGCTGTAAACACCT
TTTATGGAAGAAAGAAATAAATGTAGTTGTCAAGTCTAAAAATAGTAGCAACGGGAA
TCATAATGAATACATGCAATGAATTTAAAAATGAAAAATGAATTTAAAAAGTAAAAAGGG
CTCTGTGGTGTAATTTTCTTAACATAAGAGTCTAAATACACTGCTTTTCTT

Sequence 392

CCGGGCAGGTACCGCATCAGCAAAAGTGCCTGGCTGAAGGACACTGTTGACCCAAAAGT
GTGACCCTCAACCACCGCATTGCTGCCCTCACAGGCCTTGATGTCCGGCCTCCCTATGCA
GAGTATCTGCAGGTGGTGAAGTATGGCATCGGAGGACACTATGAGCCTCACTTTGACCAT
GCTACGTCACCAAGCAGCCCCCTCTACAGAATGAAGTCAGGAAACCGAGTTGCAACATTT
ATGATCTATCTGAGCTCGGTGGAAGCTGGAGGAGCCACAGCCTTCATCTATGCCAACCTC
AGCGTGCCCTGTGGTTAGGAATGCAGCACTGTTTTGGTGAACCTGCACAG

Sequence 393

AGGACAAATTCAGTCCCAATACTCAATACGTATTATAGATGACTATGAGTGCAAACCTTA
GGATGTGATTTTCTGAATAATTGTTCTTTGTAGGATTTGGTTACATTATTTAAATGAAA
AAGATCTAGTTTTAGTGTGAGCTCAGTAATGTTAATTGGTTAAGTTCATTGTGAATCTTG
AGTTTTAGATAAGNAGTTATTTTTTCAATATCACTTCTGTTTTTAGTGATATTATATCA
AGAAACAACGTATTCAAGAGCCATGGCTGACAGTGCCAGATATACTTAGGGATAAACATC
AAAATGCAATTATAGTTGCTATAACGTTAGATACTCGGAATCAAAATTT

Sequence 394

ANACCCACTCACTNNNAGGGCGAATTGGNAGCTCCACCGCGGTGGCCGGCCGAGGTACAG
TGATAGGTATCTTCTTTGGAGTTTTTTTTTGTGCATATGTGTATAGTTTTATGGGTTT
TGAGTTGGTGACCAGTAAGTTGCATGTAGTGCTGGCACTTACTTAATAACTATTTCATGAT
ATTGTTAATAACTTGTATAGGATTGTATCCCAATTACAGTCTCTAAGATTGTAATTGA
TATTATCTGAGAGGTAGTGTGACAACCTTTCTTTTGTGTTACATTAAAGCCGAAACATAA
TACTAATAGACAACATAACAGTTTGCTTATCAGGCACATCAACTAAGGCACCTCCCCCAT
GCTAAGTTTCTCCTGGATATATGGAAG

Sequence 395

AGGTACATAATAACAAGTTTCAACCAGCAAGAAATTACTAATATTGACTGTGGAGTTTT
GGCTGTTTTAATAGTTCTAACTCATTATCCGTAATTCACACAGCACTACCAACACAGC
TGGCAATGACAAGACTGGGAGTATCAAACTAGGATTATTAGGCACAAATCCAGGTGGCCTC
TGCAGCTGTGTCTCTCTTCTCTCTGTTCTTATAAGGGCAGGGCCTCCTTCAGGAACA
GCCACCACTGAGCTTCTCTCTCTCTCTGTTGTCAGTTGGATTTGTCAGTGTTCAGCATCTT
TTCGATGATTTACCTGCCCG

Sequence 396

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATTTCCATGGGCCCTGT
TCCCATTGATGTATACTGCTTCCTTACTAACAGTGAGGGATGACTTTTCATCAGTCTTTTA
TCACCTGAATAGTCTTCCGGCCATAATGATAGTAACTATAAGCTGATGCAGCTGTGGTGA
AAGCTGTAAAAACACCTTTTATGGAAGAAAGAAATAAATGTAGTTGTCAAGTCTAAAAA
ATAGTAGCAACGGGAATCATAATGAATACATGCAATGAATTTAAATGTAAAAATGAATT
TAAAAAGTAAAAAGGGCTCTGTGGTGAATTTTTCTTAACATAAGAGTCTAAATACACT

Table 1

GCTTTTCTTTAAGAGTTCATTTTAA

Sequence 397

TTGTCTGAGCTACTGGAATGAAGTTCACAGGTCTTGAAGACCAATATTATTTGTCAATAT
GTGGGGATAACCTGTAGCTGCATTCATGAGGTAGCAAATAGCAGTTTTGGCCTGTGGGGT
GAACAGCTAAACAGTGTTCTGGCATCAGATAACACGGCACAAAGGGATTGTGTCTAGCTC
TTTTGGAGAAAATTTATGTCCAGTCTCAGGATCTGTGGACAATAACGGAAAACCTTGAAT
ATTCTTGACAAGTTGCCATATTAGGAGTCAGTTCTTTACTTCTCTGAGATTCCCAGGTCA
TCCATGATTTTTTTTTTAATTTGAGACAAAGCCTCACT

Sequence 398

NACACCCACCGCGNGGCGGCCGCCCGGGCAGGTATGGNTCCGNGGATGCAAAACCCCTG
GGCCGCAAGAAGGGAGCCAAGCTGACTCCTGANGAAGAGAGANNNGAAAACAAAANCCGA
NCAAAAAAAAAAAAAAAAAAAAAAAAAAAGGCNNGNACCCCGGCCGCCCGGGCAG
GNACCNGACAGNAGTTAAGANGAGAGAGGNNAGGNNCCACNCGNNNAAGCAAGAGANA
GGNCGGGGGGCGNNNGNNNAACNANGGCCAGGAGANNNGGCNAAAGAGAAGACGACGA
GAGNAAGGAAAANAAG

Sequence 399

CTCACCGNGGTGGCGGCCGCCCGGGCAGGTACACGGACCGCACGGAGAAGCTGAGGCCTG
AGATGGAGGGGGCCCGGCAGCTTCACCATCTTCGCCCTTAGCAACGAGGCCTGGGCCTCT
TGCCAGCTGTGAGATGACCTCCGTCTGCCCGGGGACTCTTATGGGGAAGTGCCTTACTT
CCCCGAGGGGTGGGCATGATGAATGGGAGCCTGCAGTCATTTCTACTGTTTCAGGAAGC
TTTCTCCTTAACCCCTTAGAAAAGGCTGTGGAAGTGTGAGCTAAAATATGTCTTACCAGGT
TGCGTCTAATGCCCCCCGTTCCCTACTGGGCAGAAAGACTTGGGTGCTTCTGAGGAGGG
ATCCTTGGCA

Sequence 400

AGGTACTGCTTAATTCTTTTTCTCCCTCCCTCTAATCCTTTTTTTGACTGTCACATTTG
TCCTAATAGCAAGTTAGGACATGTCTGTTGGCTCTCGAGATTCATGGGACAGCAATGCAG
CAAATCTAGCCATAGTATTTGCTCTCTAGCCCTGCCCTTTTTCTGTCCAGTGAATAT
CAAAACAGGTAGAAAACATGGCCTGAAGGATTGTCTCTGCCACCACCTCCATATGCATT
TACCAGTAGTCCTGTACATACAGGTTGAATTAGTTTTATGTAACAAGTCATGAACACTT
TAGTGTGGAAAATAGTATTATATAAAGCTTAATATTAA

Sequence 401

AGGTACATTATCAGANACAGTGGTTGACCTCTTTTTCTTTACTCCCTTTTCATCTGAG
AGAGCCTTTTAGAGATCCGGAATCATTTGCTGTCTGCAATTACTATAGGCTTTGGCTCAC
AATTCTGGGGAAAATGCCAATTGAAGGAACCTGCCTATACATTTTATTTCTTTTTCTT
CGAGACAGACAACCTCAAAATAAGGTCCAAATATTNGGTTCTTNAAATGGTGTCAAAAA
GAATAGTATTATATGAGGAGGATAGTTATCACAGAATAAGAACTAAAATCCCATTTTTTT
TTTTTTAGGAAAAAAGACCTTCNATGATGCAGGTGTNTGTGTATAAGGAACCTA

Sequence 402

AGGTCTCAGCGTGGCTACAAGTAACTGTGGTGTGGAAGCAGAGTAGAGAGAAAACCTTGTT
CCTCATTAGAGAGAGAGCCACACTTCTCACTGCTCACAATGAGAGGCCAAAGATTACCTT
TGGACATCCAGATTTTCTATTGTGCCAGACCTGACGAAGAGCCTTTTGTGAAGATCATCA
CTGTTGAAGAGGCAAAGCGCAGGAAGAGCACATGCAGCTACTATGAAGACGAGGACGAAG
AGGTGCTGCCTGTCTACGGCCCCACAGCGCGCTCCTGGGGAATATGCACATCGAGCAGC
TGGCCCCAGCCTTCTGCAAGGGTGAAGGG

Sequence 403

AGGTACATTTCCATGGGCCCTGTTCCCATTTGATGTATACTGCTTCTTACTAACAGTGAG
GGATGACTTTTCATCAGTCTTTTATCACCTGAACAGTCTTCCGGCCATAATGATAGTAACT
ATAAGCTGATGCAGCTGTGGTGAAAGCTGTAAAACACCTTTTATGGAAGAAAAGAAATAA
AATGTAGTTGTCAAGTCTAAAAAATAGTAGCAACGGGAATCATAATGAATACATGCAATG
AATTTAAATGTAAAAATGAATTTAAAAAGTAAAAAGGGCTCTGTGGTGTAAATTTTCTT
AATAACAAGAGTCTAAATACACTGCTTTTCTTTAAGAGTTCATTTT

Sequence 404

AGGTACTCTTGGATGTGTTTTCTCACCAAGATGAGCAAAGAAAGGTTTGCACAGAGGAGT
GTGAATGTGTGTTTGTGCTGGCTGAATGGCAATAGATGTCTAAGGTGGATTCAAGTGTCT
GGCACACTGAGACACCTCCAAGAAGGAGATTGATGCATCAGGTTCAAGTTAACCTGGAAT
ATCTGACTACCCCTGAATCCACCCAGAAAGGGGGCCCAACACCCCTGTCCATTTATGGGT

Table 1

ATTTTTTTTCGAAGTTATTAAGCATATTCCTTTTCCACGAACCTCTTCTGTACCTGCCCG

Sequence 405

AGGTACCTCCTCATGACATGGGGTTTAAATAAACTACAAGTCTATTACCTTTTTATTT
TCCAGGGGAAAAAGAACTTGGGAAGGCTATTTTACACAATTAATTACACATTGACACCAC
AGTTCTGTTTGGATAAATTGGATACTGTATCCTGGAGTTTAGACAGGGAAAAAGTGATCCC
AATGTTTTACTTTTCAGGTGTAAGATTTAAACAAGAATTTGGACCAAAATGTTTCATCACT
GCAGTTACTTTCTGCTTTCCATTTTTAAGCATGTTATCTTCATGTAGTCCACCTGAACAT
CAACAGTTCAGCCTCTACAGAGTTTCTGTAATA

Sequence 406

AGGTACGTTCAGATGTAGCCATGACTGGAGAAATTACACTGAGAGGTCTTGTTCTTCCAG
TGGGTGGAATTAAGACAAAGTGCTGGCGGCACACAGAGCGGGACTGAAGCAAGTCATTA
TTCCTCGGAGAAATGAAAAAGACCTTGAGGGAATCCCAGGCAACGTACCTGCCCGGGCGG
CCGAGGTACTACTAATTCTACAATGCCTTTCTCTTTAGTCAGTATTAATAATCTTTTTTA
AAGTATTGGTATGAAAACAAATTTTTGTTGCCCTGATAATGGGAATTTTAAACTACCCA
CAGTTTAAGAGAAAAACATAACTTGGTAAAAAGGTAGCCAATAAAACCACA

Sequence 407

AGGTACTCAGGGGAACTGGAAGCCGCTGGCTCTTTCAATTCTGATGATGATGCAGAGAG
CTGCCCAATCTGTCTCAACGCATTAGAGAGACCAGGCCGTGGGGACGCCGGAGAACTGTGC
CCATTACTTCTGCCTGGACTGCATTGTGCAATGGTCCAAGAATGCCAATTCCTGTCCAGT
TGATCGAACTCTATTTAAGTGCATTTGTATTTCGAGCTCAATTTGGTGGTAAATCTTAAG
AAAGATCCAGTGGAGAACACCAAAGCGAGCGAGGAGGAGGAGGACCCGACCTTCTGTGA
GGTGTGCGGCAGGAGCGACCGTGAGGACAGGCTTTTGCTCTGC

Sequence 408

AGGTACCAAGTTCTAAATGGGCCAAGATCCTGGGGACGCCAAAGTTATTGGCTGGATGGCT
GATGAACTGAGGCCAACTAGAGACTGGTAGCACAACCTGGGGACCACCTTAGGGATGGAGAG
TGAACACATCCTGGGCCTGGATAGGACGGGGAGATGGTGAGTGATGGTCAGACGTGGCCC
TTGGCTCTCACTGTTGTTATCCCTCTCACGTTTACATAGGGGCACACGCAGGGCCAGCTT
CATGGGTGTGCAACCTGTGCAGCCACTCAGAAGGGCCCCATGCTGGGTTAATGCTTGGC
TGTCACCATCATGAAATTAATAATGTTGAACAGGGGCCCTGCGTT

Sequence 409

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGAAATAAAATTAG
CAAACAATTATTCTAGGGATATTTTTCAGATTTTACTTCATTTCTTGAAATGCGTGTGCCA
TATGCAATTGCATTTCTTGTTGCCAAGAACTAATAGAACTTATTTCACTTTACCTTTTTT
TAAATGTGAATTTAAGTTATTATAGTTCAATTTTATGGCCTTACAGATGGCTTTTATTT
TAAATGTCAGCTGACACTGCAGTTCCTTTTCATGCAAAATACCATAAACTGTTTGATGAAAA
TCATGCCCCAATGGAAGCTCTCTAGTTTTTCCATATAACTATCCTACTGTACCTGCCCCG
GGCGGCCGCTTCGACCAACATGTGGTGAGCATTCCACGGGCGCATGAAGTCTGGGTGCTG
TGCTCGAGTCTCTGAATATTTTGATAGGAAAGCGACAAGAAAATTCAA

Sequence 410

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGAAATAAAATTAGCAAA
CAATTATTCTAGGGATATTTTTCAGATTTTACTTCATTTCTTGAAATGCGTGTGCCATATG
CAATTGCATTTCTTGTTGCCAAGAACTAATAGAACTTATTTCACTTTACCTTTTTTTAA
ATGTGAATTTAGTTATTATAGTTCAATTTTATGGCCTTACAGATGGCTTTTATTTTGT
GCAGCTGACACTGCAGTTCCTTTTCATGCAAAATACCATAAACTGTTTGATGAAATCATG
CCCCTAATGGAACTCTCTAGTTTTTCCATATAACTATCCTACTGTACCTGCCCGGGCGG
CCGCTTCGACCAACATGTGGTGAGCATTCCACGGGCGCATGAAAGTCTGGGTGCTGTGCT
CGAGTCTCTGAATATTTTGATAGGAAGCGACAAGAAAATTCAACTGCTCTTTGCTGACT
ACTGGNAAGTGAAAAAGATGCTTCAAGGTTTANCCATTCAAAGGAAACCATTAGGCCTTT
TCAAAAAAC

Sequence 411

CCGCGGTGGCGGCCGCCCGGGCAGGTACAGGAGTTTCCCTATTTTGGTGTTCAGCTTGAA
AAAGGACTTGTGAGAATCAACTGTGTCATCAAAATTTAAGTAATGTGCATTGAAAATAAG
GTTGATCATGGGAATATGCAGAATTTCCAATGTATTTTAAATACAAATAAAATTGTAAT
TTAGAATTTTTAATCTTAGGTTTCTTGATTAATTTATAAGAGATCAATTATTGTGAGTCT
TTTTTGATGTTTTTTAAAAACATAGTCCAGAGCATGGGCAGAATTGACACCTCTCTTTT

Table 1

AAGTGAAATTTGGATTGCTCACAAAGCACTAGGAAATGTCATGGGGTTCAAATATATATC
CTACACAACTGGGCAATACATTTTTGTTTGATTTTAGGTCTGTGTATACATTAACAGTT
CATGTAATTAATACCTGATCATTTGGGATAAT
Sequence 412
CCGCGGTGGCGGCCGCCCGGGCAGGTTTGGGTCTGAAAGTCGATGAAGGACGCAGATTAC
CTGCGATAAGCTTCGTGGAGTTGGAAATAAACTATGATACGGAGATTTCCGAATGGGGTA
ACCTAACTGAGCAAACCTCAGTTGCATTTTGATGAATCCATANTCAAATTAGCGAGACAC
GTTGCCAATTGAAACATCTTANTAGCAACANAAAAAAAAAAAAAAAAAAAAAAAAAGC
TTGNAAACCTN
Sequence 413
CCGCGGTGGCGGCCGCCCGGGCAGGTACTTACACTCCAAGGTAACAGAATAATAATACAA
TCTTCTATTTATTGCTCCCTATCAATGTTCTAAAAACCTTACATTTATTTAATCCTCATA
AAAATCCTGTGAGGTAGGTAGTATTATCATCCCTAATTAAGATGAGGAAATTGAGACA
CAGAGAGATTAAAATTGCTCAAGGTTACAAAAACAGTAGGTGTTAGAGCAAGAATTTAA
CCCAAGCAAGTCTGACTCTAGAGCCCAGGATTCATCACAATATTCATTTCCCTATGAGCAA
ATCTCAAGGTTTTTGGATATCTATAGTAAACCATTTATACTTCTAGTCAAGTAACACATA
TGAAATTCATGTCCACACCATGGGTGAAAGAGGTTGTTCAAAGAATAAAATGAATGCCT
TGAAATTTTGGCAGATGGATACTACCATGGATAATA
Sequence 414
GCGGNGGCGGCCGAGGTACTATGAAAAGTTGATTGTAGCACAACTGTTCAATNAGTAAAA
GGTCTTCGGCAAATTCCTTTAGAGTATACTTTCTATAAACTACATGTTCCACAAAAAGG
TCAATTATATACAAATTGATTTGTTTTACTTAATCTTATTTGCTCAGATCTTGCAAATG
CAATGAGAAATATTAAGCCTGAGGCTAGTTCTCAGTGTATAGGTTTAAACAAATTAAGGCTC
ATTTTCCCAAATCAAATAGTTTTAGTTTTCTTTTAAATTATGAATTACATTCATAGT
ACAAGAAGAAATGCTTAAGGAAGAATTTCAAAGAAATCTGAGCNGTTAAATAAGAGAT
TAATCAACTGAAA
Sequence 415
CCGCGGTGGCGGCCGAGGTACTTGGCATATATTAGGCCTTCAAATGATGATGGATGGATA
GACAGATAAAAGGCCCAATGAATGATTGTAAATGTGTCTTCTCTATGTATCCATGATGA
TATTGCCTAGTTTTTAATACAAGCTTAAGAATCAATAAAATGATAGATCTGAAATCTGTA
GATGCCAGTCTGGCTCAGTATTAATACTGACAGTAGTTTTTTGTTTTTAAGAAAGCAA
GTATATTAAATATCTCTGTTAGAAAAGATTACAATTTGAAAGGATCATTCTACAATCTT
AGAATAAAAGCAATTTAAGGCAAAGAGGTACCTGCCCG
Sequence 416
TNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGAGGTACATAGAGCTTAAATA
TATCAAAATGCAAATATAGATTGGGTGCACTGTTAAGCTGAATTGCAAATATGGCAACA
CACACTGGACTGGGGTATACCGTTGCTTTGATATCACCATTGTTTGTATGTCATGCA
GACCACAATAGTCAATCTTTTCTTTTCTTTTGTACCTGCCCG
Sequence 417
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGCGCCAGGTACTGCCATGGCCA
GTAAAAATGAAAGTGGATAGATACGGAATACACACAAAGTGAATTTTGCTAAAACAAAT
CAATGGCACTTAAGACATTTCTATTCTAAAAGGCTTATTCTTAAGGCTTTTCTATTCTAA
AAATTTGCAATGTTTTAATTGAATATTANATTTTGTAATGTGGTTTATTTGTCACGTGG
ATGAAATATCAGGAAATACTCACTGCTCAGTGGAACTCTCATGGCTGNTGTTTTTGT
TGTTGTTTTCAGGATTGGAGGTTTTAAAGCAGGAAACAGCAGTTGTTGAAAACGTCCCC
ATTTTGGGACTTTATCAGATTCCAGCTGAGGGTGGAGGCCGGATTGTACCTNGGCCGCTC
TAGAACTA
Sequence 418
ACTATAGGGCGAATTGNAGCTCCCCGCGGTGGCGGCCGCCGAGGTACTTTATTATATTGGGTG
TCTTGCTTTTTTGGGCTTTTAGTTAGCTAATGAATGAATACATTAGACACTTTTGGGTT
TTAGTTGGGATTTTACATAGCTTGCAATTTAATTCCTTTGGTTCTTTGCTGTTCTATTAA
CCCACAGCATTATTTAATAAA
Sequence 419
CCGGGCAGGTTTGTGCTATTCATTATTAACACTAAAACCTTTGGCGGNTCTTGCATAACA
TTGTCAGATTTTTTAGTGATTTCTGTGAAGACATTTTTTTCTTGTCACTTCTTTTGT
AGTANTTGCTGCTTNGGATAAAAGTTTGATGTGTGATTTTTTTTATTAACAANATAGTA

Table 1

AACCCCTCAATTATAAGTTAGTNCCTTTGGTGGAAGTAAGGATGGTTTGTAGGACNTTTA
 TTAGGTTCTTTAAATTTTCATTTGGCCACCAACCGTGGACTGGTTTGTAAAGTCTTAAACC
 ACCCCAAAATTAAGTGGTCGTTNGGCCAAATTAACTTTTTTTAAAAATGGGCTTGNAAN
 AACCACCCCTTAATAAAATNGTTNCATTCAGNAAAATTATCTTTGTTCAACNTGNCTTC
 CTGGTTTGCNCAAAATACNCTCTANNNAATTAGGGAAACTTTTAANNACCGTTTATGNT
 TCCTTGAAGGTTCCCCCNTGGGAGGAANCCACCATTGGCCTTAANAANGTCCCNAAATTG
 GAAAAAAAG

Sequence 420

CCGCGGTGGCGGCCGAGGTACTTTTGGTTATTTTTCTGTCATCAAAACAAAAACAGGTATC
 AGTGCATTATTAAATGAATATTTAAATTAGACATTACCAGTAATTCATGTCTACTTTTT
 AAAATCAGCAATGAAACAATAATTTGAAATTTCTAAATTCATAGGGTAGAATCACCTGTA
 AAAGCTTGTGTTGATTTCTTAAAGTTATTAAACTTGTACCTGCCGGGCGGCCGCCCGGGC
 AGGTACACAACCTGGAAAGACTGCTGTAATAACACAGCCTTGTTATTTTTAAGTCCTATT
 TGATATTAATTTCTGATTAGTTAGTAAATAACACCTGGATTCTATGGAGGACCTCGGTCT
 TCATCCAAGTGGCCTGAGTATTTCACTGGCAGGTTGTGAATTTTTCTTTCTCTTTGGG
 GATCCAAATGATGATGTGCAATTCATGTTTTAACTTGGGAACTGAAAGTGTNCCATA
 TAGCTTCAAA

Sequence 421

CCGCGGTGGCGGCCGAGGTTTTTTTTTTTTTTTTTTTTTGCAAAGATTTTTTTTATTC
 TACTGGGGAGGGAGGAGGATAAATAGAACTGTTTTCCAATTTGCTCTCCACTGTATACAC
 ACATGCCACACACATACATAAACATACATNCACCAAAAATACCCCAACAAAAACAAA
 AAAACCAGGAATCAAAAACCAAAACACCCTCAAACCTGCACCAATACCTCATATTTTGACC
 AAAAAATATCCTGGGAGGAAGTGCAAAATGCAAAATCAAATGACCCGAAAAATGCTGAA
 CAAACAGCATTATTAATATACAAAATATTTATATTACTGAAGTAGTAACAGGTGATGTT
 TCCATGTCTGTAAAACCTTGGAAACCACATAGCTGATTTGTTAAATCTAGTCCATGCCAGC
 TTNCAAAAACCAAAC

Sequence 422

TATTGGGCGAATTGGAGCTCNCCNNGGTGGCGGCCGCCCGGGCAGGTACNATATACGAAG
 ACTCTGAGCTGTTTGCCTCCGATGGTTTCCAGTATTTGCCCGTTGTAAAGCTCATTAAAG
 CCAACTTTTACTTTCAATATGTGATTCTGCAGAATTAATTTAAGGAGGCGCTGATCCATG
 CTGAGAGTATCATCAGAAAATGCATTATTCACAGGTGCCAGCAAAGGTGTNTTCTCCATT
 TGGCCTTAAANCCAAATNCCCAAACTTNNTTGGGCCCAAAAANNCCCGGAAAGNNGGGT
 TTGTTTTTTTTCCCGCCCCNTTNAANNATTTTTTTTGGGAAAAANNCCGGGAATTTGGCCC
 NTNTTTTTTTAAAGGGGGGGCCCCCCTTTTTTTTTTNAAAAAAANANTTTTTNTNTNCC
 CCNNNTTTNNGNCCNTTNTTGNNGGGGGGNNCNCNCCCNCAAAAAAANNAAN
 NTNNTTTTTNCCCCCNNNNANGAGGGGNNCCCCCTNTTTNANAAAAAANNAAN
 NNNNNNNNTTTTTTTTTTTTTTTTNC

Sequence 423

TTAGGGCGAATTGGAGCTCCCAGCGGTGGCGGCCGCCCGGGCAGGTACTGATTTAGTAA
 GTCTCATAGGTTAAAAAAAAGTCACCAATAGTGTGAAATATATTACTTAAGTCCGT
 AAGCAGTATATTAGTATTATCTTGTTCAGGAAAAGGTTGAATAATATATGCCTTGATAA
 TATTGAAAATTGAAAAGTACCTCGGCCGCCCGGGCAGGTACCATCTTGGCGGATGACTTC
 AGCATTAGATGGTCAGGTGATTTTTTTATTAATAGGCGCATTAGTTTGGAAAAGGCAG
 CTTTTCTTAATGTCCACGTAAAGGAATATGGCCTATACAGTACCTCGGCCGCTCTAGA
 ACTAG

Sequence 424

CTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACAGTAACATCCAAGAGCC
 CATTCTACAGTGGGTGGTTTGGTCTTTTTATAACTTTTTCTCAAAGTCACTGATGTTG
 TTCCTGTAAATGTATATGCA

Sequence 425

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGTGGATCTAAAAACAAAC
 AACAACTCAAAAAAAAAAAAAAAAAAGAAAGAAAAAGAAAAAGAAACCAATGCAGGTGA
 AGGTGTTACCAGGAAGTTAAGCATGCCAAAAGGTGTTCCGTGCGAATGAAAACCTAAAGC
 CAAGGTACTCTCCACTCTCCAGTCAGAGTGGCACATCTTGAGGTCACGGCAGGTGCGGG
 CGGGGTTCTTGGGCTGCCCTCTGGGCTCCGAATGTTCTCG

Sequence 426

Table 1

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTAAAAATGTAATCTA
GTTGGCAAAGGTGTGCGCTAAACACGGAACCGAACATGCATTGATTGGATAACTTTTG
AGGGTTTTTGNCAAATAGCATGTGAAGAGTTACNTTTTTCTTAAAAGATTGGTGGTCCCA
ATGTCAGAGTTCTTGAACAGATAACTGAATGATAGATTTTTTTTTTAAAGATAAAACTT
TACAACCTGCACATTTGTTATGCATACTAAATGGNGTGTTAAAATTAGGGTTCTTTGCC
TNTCTACACTACACTAATCTGCCTAAAGGNGGTTGTTTCATATTTATAATGCTAATTATC
ATACCTACCTACTTTAAATTTTAGGTAGAAAATTATCTGATTTAAATACAAACATNTTT
TCTCACATTGAGTAATATGCATAATGTAAGTTCAAATGTATTTTCAT

Sequence 427

TCACTACTTAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTTGCCA
TATATTAGGCCTTCAAATGATGATGGATGGATAGACAGATAAAAGGCCCAATGAATGATT
GTAAATGTGTCTTCTCCTATGTATCCATGATGATATTGCCTAGTTTTTAATACAAGCTTA
AGAATCAATAAAATGATAGATCTGAAATCTGTAGATGCCAGTCTGGCTCAGACCT

Sequence 428

CTTAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACGCATACAGGGCAGATGT
CAGAGATTATGATCACAGGGTGCTGCTCAGATTTCCCAAGAGTGAAAAACCAAGGGAC
ATCAGATTTCTTACCCAGCCGACCAANATATTCCTGGGAATGGCACAGTTGTCNTCAACN
TTCCACAGNGTGNGTNGTGTTCNCCCNNTTATCCCTNTTTGCCCCNACCCCAAAAGA
ANANTNGGTTNTNTGGCCCCNAAAAANNAGNTTTTTTTTTTTTTAAAAAANAACCCCT
GGGAACNTNTNGGCTTCCCNCAANGGCAATTTNTNTNTNTNTNCCCTTCCCGGGGGNG
GNCCCNNTTTTNAAAAACANAGGGGNNNCCCCCCCCCNGNGCGGGGANNGAATTTTNG
ATTTAAAAANTTTTTTNNNNCCCCCCCCCTNNAACCNCCNTNGGGGGGGGGGGGCC

Sequence 429

TAACACTACTTAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTGCG
TGTTCAACCGCAACGAGGATGCCTGCCGCTATGGCAGTGCCATCGGGGTGCTGGCCTTCC
TGGCCTCGGCTTTCTTCTTGGTGGTCGACGCGTATTTCCCCCAGATCAGCAACGCCACTG
ACCGCAAGTACTTCTTTGGCAGACGGCTATTATGTTTTACTTTAGTGCCGTATTGTGGA
TGCCAGAGAAGTTGCATTTGCCAGGGAATAATCTCCTGAGATGCTATATTATGAAGTAGA
ATGGTGTAGTCTAATTCAATAAAGTCATCATTTCTTTGCACCTTGCTTGGACAGTTTGAAT
TTTTACCATTTTATACCATGTGTCTTTCAGTAGGAATTTTGGCATATTATATAACACAG
GCAACCCAAGCTAAAATGTAGAACGGAGCCGTCATTTCTGGGAGATACATTTCAA

Sequence 430

ATCACTACTTAGGGCNATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTTTCACAGCTG
ATCCAGAAGTCAATATTCTCCTCACTATATTCAGACTTCAAGAAAGCTTTGAAAGCTGCC
AGCCACATTCATGACTAATCAGGTTTTCCAGTGATTAGCCCATTTCTTGACTTCCTCT
TGGCTCACTCTCTGGCAAATAACCACTTTGTCTTNTGGTTGGGGGAAAGAAATGGGGTC
ACAGGAATCAAAATTTGCAGCAGGGAACCTAGCCCGTGTTTTCATATNTTTGGACT
CCTAAAGAAAAANAACCCGGAAAAACCTTGGNAGGCCNTTTNGCAAATNTNTNTAA
ACNGGGTTGGANATTCCCCAGGGGGGANNAAAAANATTNGCGGGAAGNGGGNGGNNCTT
TTTTTTTTNTNTTAAANAANACCCGGGGGGGGGGGNANAAAAANNNAANAANTNCCNN
CCCCCGGGGGGGGGGGNNNTTTTAAATTTTTTCCCCCCCCCCCCCNGGGGGGGGGGG
GGGGGGCCCCCCTTTTTTTTTTTTTTTTTT

Sequence 431

AATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACAGAGACCTCCTTACTTACCCCCCTTCT
CCTTCGGCTGGAGCTCGGCGAGCGAGAGGCGGCGCTGGCGTTGGAGAGCGTGCTTGAGAA
TGAAATGTTTCCCATCATAGTGGATTCTTAAGCACGTTCTCCACGTATGCGGCGTGCTAG
CTGGATGTCTTTNGGCATAATTGTACACGTTTGGCATGGATAGCACACAGGNTGGGTGT
NTTAAAAANGGCNAACCAATGGCCNTTTTNGNCTCCNAAAAAACCAANAGTTTTTC
CTTTGNANNNCCCAAATTTTTT/NAAAGGCCCGNGAAAATTTTTTNCNCAACCCCT
TGGANGGGANATTTNGGGAAAAANAATAATTAAGGGGGCTTTTTTNAACCCCTTAN
NTTNTNGGGGGGGCCCCAAATTTTNTGNCGGGGGGGGGNTTTTAAAAAANAANNGG
GGCCCCCGGNGGGGGGGGGGNANTTNNANAAAAATTTTCCCCCCCCCCCCCCCCGG
GGGGGGGGGC

Sequence 432

GGGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACATCGATGTTGATCTTCANGTTTATCTCCC
CGCGACTTGTCCACGTAGAGCTCAGGATGCACCTCCGTGGTGAGGTAATACTGCACCTGC

Table 1

CCGGGCGGCCGAGGTACATGCCTAGACCTGGGCTCCGGCCAGCGCCCAACAGCGTGATG
TCGATGACTTCATCAATACGAGAATACAGGAGGCAGACAATGACCCACG

Sequence 433

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATGTATTGCCATTTCTCTGCTATATAGT
AATATTTCTTGACACCAATGGTAATGTGTTTCTTTCTCAGCACCAGATGTGTCCAT
ATGTATTTAAACAGTAGGAGCATTGTTTCTAAATTCATCTATGCTATGACATATATAAAC
CCATTATTATTATGTTTCACTAAAGTTCAGCACTTTAGAAAAGTTTCAGTTCAAAGTCA
TTTTGGCTCATTCAATTTAGATAATACTGACCATTTTGCCTACAATTTCAAAGGAACAT
GAGAAATTTGGATTCTTTGAAAGAGTCAAAATATGTAATTACAGAATTGAAACACTGNGT
TAATCCCAAAGGGGGTGGTAATAATTAACATTAA

Sequence 434

CGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAGGAGTTTCCCTATTTTG
GTGTTGAGCTTGAAAAAGGACTTGTGAGAATCAACTGTGTCATCAAAATTTAAGTATGT
GCATTGAAAAAAGGTTGATCATGGGAATATGCAGAATTTCCAATGTATTTTAAATACA
AATAAAATTTGTAATTTAGAAATTTTAACTTTAGGTTTCTTGATTAAATTTATAAGAGATCA
ATTATTGTCAGTCTTTTTGTATGTTTTTAAAAACATAGTCCAGAGCATGGGCAGAATT
GACACCTCTCTTTTAAAGTGAATTTGGATTGCTCACAAGCACTAGGAAATGTCATGGGG
TTCAAATATATCCTACACAACCTGGGCAATACATTTTGTGATTTTAGGTCTGGGT
ATACATTAACAGTTCATGGAATTAATACCCGGATCATTTGGGATAATGNAAGTGNAGTTA
GTTGTAGATGAAGTAAAGNTATAAAAGGAGATTAATAATGCGGTAACTTTTA

Sequence 435

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTTATTGATA
GTGGAATTATATATTTTACTCTATGTTTCTCTACATGTTTTTCTTTCCGTTGCTGAA
AAATATTTGAAACTTGTGGTCTCTGAAGCTCGGTGGCACCTGGAATTTACTGTATTCATT
GTGCGGCACTGTCCACTGTGGCCTTTCTTAGCATTTTACCTGCAGAAAACTTTGTATG
GTACCTCGGCCGAGGTACACAACCTGGAAAGACTGCTGTAATAACACAGCCTTGTTATTTT
TAAGTCCTATTTTGATATTAATTTCTGATTAGTTAGTAAATAACACCTGGATTCTATGGA
GGACCTCGGTCTTCATCCAAGTGGCCTGAGTATTTCACTGGCAGGTTGTGAATTTTCTT
TTCCTCTTTGGGGATCCAAATGATGATGTGCAATTTCAATGTTTTAACTTTGGGAACTGAA
AGGGTTCCTATATAGCTTCAAAAAACAAAAACAAATGTGTTATCCGACGGGATACT

Sequence 436

CCGCGGTGGCGGCCGCCCGGGCAGGTACAGGAGTTTCCCTATTTTGGTGTTCAGCTTGAA
AAAGGACTTGTGAGAATCAACTGTGTCATCAAAATTTAAGTAATGTGCATTGAAAAAAG
GTTGATCATGGGAATATGCAGAATTTCCAATGTATTTTAAATACAAATAAAATTTGTAAT
TTAGAATTTTAACTTTAGGTTTCTTGATTAAATTTATAAGAGATCAATTATTGNCAGTCT
TTTTTGATGTTTTTAAAAACATAGTCCAGAGCATGGGCAGAATTGACACCTNTCTTTT
AAGTGAATTTGGATTGCTCACAAGCACTAGGAAATGTCATTGGGGTTCAAATATATAT
CCTACACAACCTGGGCAATAATTTTTTTGTTGATTTTAGGGCCTGNGTATACATTTAAC
AGTTTCATGTAATTAACCTTGATCAT

Sequence 437

CCGCGGTGGCGGCCGAGGTACTTAAGCACTGCAGATGCTCCAGTAATATGCCATAAGTT
CCTTTCCAATTTCAATTAAGTGGGAAAAATATACATATGGACAATAGATGGATGCCACAATA
AAAGGCTGGCAGCCTAACCTCACATGAATTTTCCCTACCTCTATTTAGGGTGACAGTG
GAGGGCCTCTGGTTTGTCTTGAGAAGGACAAATACATTTTACAAGGAGTCACTTCTTGGG
GTCTTGGCTGTGCACGCCCAATAAGCCTGGTGTCTATGTTCTGTTTCAAGGTTTGTTA
CTTGATTGAGGGAGTTGATGAGAAATAATTAATTGGACGGGAGACAGAGTGACGCACTG
ACTCACCTAGAGGGCTGGAACCGTGGGTAGGGGATTTAGCATGCTGGAAATAACTNGCAG
TAATCAAACGAAGACACTTGTCCTCCAGCTCCAGCTACGCCCAACTCGG

Sequence 438

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAGAAACATTTTCT
TTTATTGTTACTTGCTTTTTAACTTTGTTTAGCCACTTAAATCTGCTTATGGCACAAT
TTGCCTCAAAATCCATTCCAAGTTGTATTTTGTGTTTCCAAATAAAAAAATTACAATTTAA
AAAAAAAAGAAACAAGAAAAAAGAAAAAANNAANANAAAAAANAAANC
ANAAAAAANAAAAAANTANANAAAAAAGGAAAAATCTGCCTANCNAAAT
AAAAAANAAGAAGAAGAAATGGTTTTNGCNNNGNCCNNGNGNCTTTCTTTTNAAA
NANATNTTTTTNAAANGNTGNNTAAAAANANANNAACAATGTNNNNNAAAAAATCTTTT

Table 1

TTNTAAACCNNGGGGCGTNNNTTTTTNNAAGCAACCNNGNAAAGGAAAGNGGTTTTTTTTN
 AAAAAAATTATNGGGGTTTTTTTTTTTNAAAAACCCNCGGGGGCCCNNGGTTTTTTTTT
 AAAAAAGGGGGGGGGGGCA

Sequence 439

CCGCGGTGGCGCGCGAGGTACCACGACTCTTATTTCTGCAGCTTTTGAGAATTCTAAAG
 ATACCTGAGTCATTTTAAATAAATTTTCAGCTTTCTTTACCAAACCTACCCTTAACCGGATT
 CTCCTTGAAATGACATCACCTGACACCCATGGCATGCTGCATGCCCACAGCTAGATTACT
 TTTTAGTGCGCCACGCACTTCTGCTTTTATTAGGTGAGGCAGAATCAAGATTCCTTTT
 GTTGGATCTTGAACCTGTTTCATGCCACTTTGATATTCTAAATTCATACATAAACCAATGA
 AATATATGTGTTAGAAAAATTGCTATTTCTAGCTGGACGCAGTGGCTCATGACTATAATC
 CTACCACTTTGGCAGGCCGAGGCAGGAGGATTGGTTGAGGCCAAGAGTTTGAGACCAGC
 CTGGGCAACATAAGTGAGACCCTGGTTTCTACAA

Sequence 440

CCGCGGTGGCGCGCGAGGTACTTGGCATATATTANGGCCCTTCAAATGATGATGGATGGAT
 AGACAGATAAAAAGGCCCAATGAATGATTGTAAATGTGCTTCTCCTATGTATCCATGATG
 ATATTGCCTAGTTTTTAATACAAGCTTAAGAATCAATAAAATGATAGATCTGAAATCTGT
 AGATGCCAGTCTGGCTCAGTATTAATACTGACAGTAGTTTTTTGTTTTTAAGAAAGCA
 AGTATATTAAATATCTCTGTTAGAAAAGATTACAATTTGAAAGGATCATTCTACAATCT
 TAGAACTAAAAGCAATTTAAGGCAAAGAGGTACCTGCCCGGGCGCGCGAGGTCCCCCTT
 TTTTNT
 GTTGGANCCCTTTTTTANTTTTTTNTCAACACCCCCCGNCTTTATAANTAACCCTTTTAA
 NTTTTTTTTTTTAAAAA

Sequence 441

AGGTACCAAGTTTTATTTTTCACCTTATTCTCTACTTTAAACAAATCATAACTTTCTCTT
 TAAGCCTCTGCTATAAATTCTCCTGGCTCTCCTGGGCTTNCATATTTGGGGGCTTGGGG
 TGTCAAAAGTGAGATGAAGTTCTTTAGCTCCAGGTTTTGGGGTAAACCANAGGTAGGTAA
 CATTTGTTGGGCATTTATTTTGAANTTAANCAANTACTTTCTTGNNACTNGGNTGCCGG
 GTGGCTCACGNTTGTATNCCCAGCACCTNTTGGGGGAGGCNTTGAAGACCAGGTNNGG
 ATNCAACNNTNAGGGGTCGGGGTAGGTTTCTNAGGAACCATGGCGCTGNGCCNCAACN
 ATNAGGCCAAAANACCCCCCTGTNCNTTTTNACTTAAANAANANTNACCAAAAAAATT
 TAANTATTGGGGGNTGGNTTTTTTGGGGCAC

Sequence 442

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTCTTTGCCTTAAAT
 TGCTTTTATGTTCTAAGATTGTAGAATGATCCTTTCAAATTTGAATCTTTTCTAACAGAG
 ATATTTTAAATATACTTGTCTTTCTTAAAAAACAAAAAACTACTGTCAGTATTAATACTGA
 GCCAGACTGGCATCTACAGATTTAGATCTATCATTTTATTGATTCTTAAGCTTGTATTA
 AAACTAGGCAATATCATCATGGATACATAGGAGAAGACACATTTACAATCATTATTGG
 GCCTTTTATCTGTCTATCCATCCATCATCATTTGAAGGCCTAATATATGCCAAGGTACCT
 GCCCGGGCGCGCGCTCTAGAACTAGGTG

Sequence 443

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGCGGCGAGGNACTGACAGGAGA
 TTGGCTTTTACACTAAAAAAGACAGAAAATGGACTAAATAGGAACATAATTTACAGATTT
 ATGAGTCAGTTTACAATATGCCATATTAGCGATCTCATGATTACAGACCACAGTCTGG
 GTTAAAGATGTCTTGACCTCTGAGGCTAGCATAACATATATGAGAATACAACTTGCCTAT
 TTCCAGAAAATCTGTATATTTTATAGAATAACTTTATTTACAATTTCTATCATCCAATT
 ACTCACTAGGCATTATTTGT

Sequence 444

ACACTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCGCGGCGAGGTACAGCAGA
 AGTTTGCTGTCTTAGGATTATATAGCACCCACAGAGCTCCAAGTAACCAAATTCCTCCC
 AAAGACAGGAGGTGTGGCTGAGGAGGAGTGACCATATTGAGTGTAGCTTTGAACGCCTCC
 GTTACTCTTTAGGAGGCGACCGCCCCAGTCAAACCTACCCACGCACTGTCTCTTCCC
 AGATAAGGGGAACGGGTTAGAAAATCAATTTAGCAAGGGTGGTATTTCAAGGTTGACTCC
 ACTAGAATAAGCGTCCCAGCTTCAAAGTCTTCCACCTATCTACACATGCTAAACCAAT

Sequence 445

NCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCCTTTTTTAAAAACAC

Table 1

TGTAAGAGTAACCAAAATATGTGAGGACTTACTATTTTAAATGGAATGGAATGAGCTCC
ATAGATTAGTTTTGAATATAAAGTATATAAAAGTGCATCAGTGGTTTATATAGGCTTTAA
AAACATGTTATCTTACAGTCTCTTTAAAGCAGCCATAGAGTTTGTATCATTTTCAAGCCA
ATTTCACTCAGGGATTTGAATTTGTTGATTGGATGATAAATGTGTCATATCTTATTA
TATGCTCATGTCTCGTTCCTCTTAATATGATTTAGCTGGAATTCATTTCTTTTCGTT
TCATGTTTAAATTTATAAAACGTTTAAACAATTTGGCATATATACTTTGGCATTCCGTCCAC
CAAGGGATTGTAATCCAAGCCTGGGAAATCTTAAATTTCTTTTACTTAAATCTGGNAA
TGTGTCNCTATCTGCCACCTTTTTTTTTTTT

Sequence 446

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGCAGGTACAAGCTCCT
AAAAGAAGATTACTGCTGCCAACTTAAGTCATCTCCGTTAACGAAATGCATTCCTGTGG
CAGAGTTAAAACAACAAGAGAAATTCAGTGTTTGCTGGTTCTGAATGTCATTTTTCTCTC
CTGGTGTGTTTTACATTTTCAGCTTCTTTCCCTTTTCTCTCCACCCCTCAAATTC
TGCCCTAGCATTTGTGTGCTTAATTAATCCACTCTGTGCTTTATTGTTGGAGAAATGTGG
ACAATACAAAGATTTGGGGTGGGGTCATACAGTGATACAAAACACACACTATGTGTT
TGGACAAATTCGCCAAGCGTGAGAATCATCAAGTAGTGAGTTTAAAGTTTGAAATCAA
GACCCAACATTTTGGGGTGTTAAAAATCTCCCGCTGTGAAATGGNTCCTGTTTAAGTG
TTAGATTNGGAGANCCCTTGATTCAAAAAACAAAACCGA

Sequence 447

CCGCGGTTGGCGCCGCCCGGGCAGGTACAGAAGAGAGAAATTCAAACAAAATATTGCTGT
TCTTCAGTTTTGTTTGTGGAATTTGAAATTA CTCAAATTTAAAAATAATTACTGGACTGT
GGAAATAACATAGAATTGAAGTTTTAATTAATACC ACTCAAACGAAAAGAACAGTAGTT
TTTGTAGTTTTATATTGGATACTGAGGCATTAGGGAGGCATGAAAGGAAGAGGAATGAGG
ATTGAGACATGTGAAGACATTGTGCATTATATCAATGTGCATTCTGTAGTTCATTAAACA
AGGTACCT

Sequence 448

CTACTTAGGGCGCAAT TGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAATGAC
CAAAATTTTTTATTTGACTAAATTTCTATTCATGCATGAGCATGACAGTCTCCCGTTTATT
TGACTTTGGCAATAAAAAACAAGCAGCTTGACTTTCATTGTGAGGTGGCTACAACCTCT
ATAATATGCACAGTGATTTTAAATAGGCTTTTTGCATGCCTTGCATGAAAGGTGCTACA
TACAAACCTGTTTTGTGAACCTTTTGGTAACCACCAATTTAAAAATTTGGATGAAAGCAT
TTCCACATGGACAGATCTGAAGCAGATATTGGAGCTCTGAGCCAAAGCTATTACCTGT
ATATTGATTCCTCAGTTTCCTTGGAGGGGTAGGTGTTGATTTAGAATACAGCCAGATAAT
TTAAAGCATGTGAGGCCCCGGTTAGGAAATGAAATG

Sequence 449

CCGCGGTGCGGGCCGCCGGGCGAGGTACAAAAATAGGAATGGGTTTTTACCTGTTTAAAGTCACTTTGTGTTATAACAAAATTACTTTTAGCTGAGGAACAAAGGTGACAAAGATTTCTGTTGGTGGCTGAGAGTCAAAGCAGGCCAATCCACACCATTACCTGAAATATTTTTCAGGCTAATTTATAACTTTATGGATTTCTCGATACAAGTTATTAGTTTATTCTCCATATACAAGTTTATTTCCCGAGAATAGCAGCAATAAAACCTTGATTTGGATGTACCTCGGCCGAGGTACTACGTGCCAGCTCTAGTTTTCAAGCCTTTGGGAGGTTTTTATTC

Sequence 450

CACTACTTATGGGCNAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACTGCATATAAAA
ATGGTCTAAGATGCAATTTTCCTCCATTCCTTTTTTGCCTTTTAAAATACCTGAGACGCAT
TTTAATTCAATATTCCTAGGTTCCAACTGATACATTAAAAAAATCATCAACCACTTTAA
TCATTCTCATCTCCATTTTTTAAAGTTAGCTAACAGATGATGTTTCACTAAAAATAAATA
TCCAATCATCAGATTTAAAGTGTAAAGTTTGTGTGAACAGGGAAATTAGATCATTTCTCTA
AGTTTTAATTCCTATGTTTCTGAAATGTTTCTTGAATTAATAATTCATTTTCATCATCTTAC
TTTCAAAACACGGCATCTCTCTTTCCACATTCCACAGAGAGAGAAAAGACTAGAAAATAC
TTTAAAAAATAAATATTTTAA

Sequence 451

CTACTTAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACTACGTGCCA
GCTCTAGTTTTAGCCTTGGGAGGTTTTATTCTGACTTCCTCTGATTTGGCATGTGGAG
ACACTCCTATAAGGAGAGATCTCAAGCCTGTGGGAGTAGAAAAATCTCATTCCCAGAGTCAG
AGGAGAAGAGACATGTACCCACCTCTAAGATGCTGGGGAGGCAGCTGGGATGGGAGC
CAGCCCCATGCCTGTCTGTGACCCCCAGATGGGTGAGAGGCCCTCACAGTCCTGGGGTGT

Table 1

GGCTGCTCTGGAAGAATTAGGAGGCAGCCATAATAAGAGTCTTCAGAGAGATGATGGGAG
GGGCCAGTGAGGACAGGAACAGGAGAGTNNATGTCTATAATAAAGGGGGC
Sequence 452
CTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGGAGATGCTGCC
TTGAGACAGCTGAGGTCACCGCGGCGCGCACAGGCCCGAACGCTCAGGAGTGTGGTTGT
TAGGAGAGCACACAGGTGTTTCATACAGTGGCATTGGGACACAATCGTTGGAACCTGAAG
AATCTGAAGTTTTTTTACCACCATCTTTTTCTACTCTGTAAGGAAGTAGATCTTTATGG
GGAAAAGAGAATTTGGGGTGTCTGCAAGCCAGTCAAAGTGGCACAGCAAATCATATAAA
TCGAATTAATGGACAACACCGTTAGATGTGTATGTAAAAATTTCTGTTTCATATTTTT
CCTTTCACTTTCGGTTTAAACATGCTATATGTACCTCGGCCGCTCTAGAAGTAG
Sequence 453
CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTGGCATATATTA
GGCCTTCAAATGATGATGGATGGATAGACAGATAAAAAGGCCCAATGAATGATTGTAAATG
TGTCTTCTCCTATGTATCCATGATGATATTGCCTAGTTTTTAATACAAGCTTAAGAAATCA
ATAAAATGATAGATCTGAAATCTGTAGATGCCAGTCTGGCTCAGTATTAATACTGACAGT
AGTTTTTTTGTTTTTAAGAAAGCAAGTATATTAATATCTCTGTTAGAAAAGATTACA
ATTTGAAAGGATCATTCTACAATCTTGAACATAAAAAGCAATTTAAGGCAAAGAGGTACC
TGCCCGGGCGGCCGCTCTAGAAGTAG
Sequence 454
TTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCTGACTTTGTGACTTAGGCGGGCTG
TGTTGCCTATGTAGAGAACACGCTTCACCCCCACTCCCCGTACCTGCCCGGGCGGCCGCC
CGGGCAGGTACAAGCTATTATATATTTTCATAATATAGAACTTTAAAGTATAGTAATCAA
CAGTGGCAAATATTTCTGTCTCTGACATTATTATTTGTGAGATCCAACCTGTAATTGAG
ATCAGAGAAAACAGTATGGGAAAACAAATCCATGAGAACAGGATAAAAAATATCATGAACA
GCAAAATATGTCTGAGTATTTAAACTGTATAGAAAAATAAATTAGATGAACAATTGTG
TAAATATAAATTAAAAAAGATGACATTCCTAATAAATAAAGTTTACTATTACATTTTTA
TATATTGCCAAAAGATTTAACTTAGATNCATAAAAACACATAAACAGAA
Sequence 455
ACACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTCTTTTT
TTTTTTTTTTTTTTTTTGGGCGAATACAGATAAATTTATTAGTTAAATACTGATTTTT
CAGCCATTTACCTTAAGACAATGTTAACAGGTTTGNNGGTTAGGGAGGGTATACGAGGG
GGCCTTTGGAAGAAAACAATGTAAATGATGATTAAACAGAATCTTGGTTCAAAGGTATT
CTNTGCTATAGCCAGTAGGATTTTGGAGTGAGGGGTCTGGGCCGTGTGGGGAGGCGTAAT
AATGCCACAGTCAGCTNCAGCTTTTGN TGAGAAAGAGGAAAGGAGTCTCTTGAGCTCAGC
ATCAAGGGGCAGAACAGCAATGTGCCANAGGAAGAACGCGGGCAGATCCCGGAGCACTTA
AAAGTCNGAGGCTTNCTTCAGGCCCCCTGNCGGGTTTAAANCAAGTCGTTTTNTTTCAN
GAATTCTGGTGGGGTGGGGT
Sequence 456
CGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTTGATGAAGGAACTGACAGGAAA
TTAACAGCCTCGTGCAGGCAAGGACAAAGACAAGAAAAGGCCCATTTGGGCCTCATATCT
CTCTGGATTGGAACCCGAGGAAGCAGAAGGGGCTGTTAATCCTGGCTCCAGAGCAACC
GTGAAGGCTGGCTTCTCCTTGAAGAAGAACAGGTGAAGGAAAGAAATCACTGTGTTT
TCAGCTCAGCGGCCCTGTGACATTCTTCGTGTTGTGATTTGTTGAGTGACCAATCAGAT
GGGTGGAGTGTGTTACAGAAATTGGCAGCAAGTATCCAATGGGTGAAAAAGAAGCTAACT
GGGGG
Sequence 457
GAGGTNCTGCATGTTACATATTCTTCTTTAAATTTTGTAAATAACATTGACAGTGTGTTG
GTGGGCACAGGGAAACAGGATAACGTAGAGTCATTACAGAAGAAAAAACTTATTGCTAA
CATTCAGTATTCCTTTTATCAGAATTAGGTGAGTATTGATTGTAAAAGCTCTATCAACT
CTTGCTCTTATTTGATGACTTTGAGACTTTTTTACTCTTGCTATAAAAAGAAGGCTACTT
TCTTCCCTAATATATTTCTACCAATGCGAATAATTCAGGAAACAATGAGAGAAAAAGTAA
TTCACACTTAATGTGTTGTTACTTAAGAGATTTGACGGATAAAATAAAATCAAATTAAT
CATTGAAAAGGCAGGCTTAGACCCNTTAAAAACACCGTTAGTTGCCTACCATAATTGA
GCACTTTTTCATGGAAAAAAAAC
Sequence 458
CTCNCGCGGTGGCGGGCCGAGGTNCATTTCCATGGGCCCTGTTCCATTGATGTATACT

Table 1

GCTTCCTTACTAACAGTGAGGGATGACTTTCATCAGTCTTTTATCACCTGAACAGTCTTC
CGGCCATAATGATAGTAACTATAAGCTGATGCAGCTGTGNNGAAAGCTGTAAACACCTT
TTATGGAGAAAAGANATAAAATGTANTTGTCAAGTCTAAAAAATAGTAGCAACGGGAAT
CATAATGAATACATGCAATGAATTTAAATGNAAAAATGAATTTAAAAAGTAAAAAGGGC
TCTGTGGTGAATTTTTCTTAACACAA

Sequence 459

CGCGGTGGCGGCCGAGGTACAAGCTCCTAAAAGAAGATTACTGCTGCCAATTAAGTCAT
CTCCATTAACGAAATTGCATTCTTGTGGCAGAGTTAAACAACAAGAGAAATTCAGTGTT
TGCTGGTTCTGAATGTCATTTTTCTCCCTGGTGTGGTTTTACATTTTCAGCTTCTTTCC
CTTTCTTCTCTCCACCCTCAAAATTCTGCCCTTAGCATTTGTGTGCTTAATTAATCCA
CTCTGTGCTTTATTGTTGGAGAATGTGGACAATACAAAGATTTGGGGTGGGGTCATACAG
TGTATACAAAACACACACTNTGTGTTTGGACAAATTCGCCTAGCGTGAGAATCATCAG
TAGTGAGTTTAAAGTTTGAAATCAGACCCAACATTTTGGGGTGNNTAAATATCTCCC
GCCTTGAA

Sequence 460

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTGACGAAGAATG
AAAAGGTTGTATTAAAGAACTATCAGGACATGGTTGTGGAGGGTTGTGGGTGTCGCTAGT
ACAGCAAAAAAAAAAACGTCAGGCCAAACACAAACAGCGGAAACGCCTTAAGTCCAGCT
GTAAGAGACACCCTTTGTACAAGCTTTTTTTTTTTTTTTTTTTTTTTTNGAAGTTTT
AGTTTATTACCTGCCCG

Sequence 461

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAATGTTATGTCCGGGAACA
CGTGCTGCTAACTCACTGGTGAGTTCAATGGCAACGCTTCATTCGGGAGGCTGTTCTGCT
TTACGCATCTGAGAACTACATAGGAGAGCAAGTGTCTGCACCTCCTAACTGCAGAAGCTA
CCGTCTTCTCAAAGACGAAGGTCTTTGCAAAGTTCAGTGCTCGGTGTTCTCGGCACAACA
ATGCNNTGTAGTTCANAAGGTATTTTGGCAACTCTTAATCTGAACAAGATGGGGGGGGC
GCTTTTGAATAAAGGCTTTAAGAAGGCTTGTCAATTTAGGGCTAAATTTAATAGAAT
GTGAGTCTGAACCTTACATTTAGAACAAACAAACCTTAAATTNCTGATTGGTTCAAA
AAATGGTTTTATGGAAAAATTAATCTGTAACAAAAGTTGGCATTGAGTGCGAAGGCTC
CCCCGTTGNTTTTTTTTTTGNTTTTT

Sequence 462

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAGCTTTTTTTTTTT
TTTTTTTTTTTTTCTGTTGCTACTAAGATGTTTCAATTCGCANCGTGTCTCGCTAATT
TGACTATGGATTTCATCAAAATGCAACTGAGGTTTGTCTAGTTAGGTTACCCCATTCGGAA
ATCNCCTATCATAGTTTATTTCCAACCTCCNCGAAGCTTATCGCAGGTAATCGNGTCCTT
NATCGACTTTNAACCTGCCCGGGCGGCCGCCCGGGCAGGTCCAAAAACCAACNTGACACA
CAGGAAAAAATAAAGTGCAATTTAATATAGGGAATGNGATNCATGTATAATTCCTCAT
AACAAAATGGTCAAAACCTTTAAAGATCCNCAATAGATTTCTGAAAATCTTAGCAATGC
TGTATTTNTTTTTGNGGACTAAATGGTGAATTTATATTCAAATTTGGTCA/ATTTATTTTCA
AACTTTTCAGAGCACANATCATTGGTAATTTT

Sequence 463

CCGGGCAGGTACACGTGTTCAAGTGTGTTGCACATCACAGCCCAGGTTGAACTCAGCCAGC
AGGATCTTGGCAGCTTCTTCTGCTTTGCAGGAAGGACAGAGGTTGAGGTAGGAACCTCA
TAAGCAATTTGGAGAGAGGCTCCTCCCATATCCAGTATCCCTACTGTCCTTCTCCGTCT
GCTGCCAATTCCTGGGTAGCCTCAGCATCTGATTATCCTCGTGGTCAATCTTCCCAA
ACAAAGTTGATTCCAATCCATGCATAAACCCCTTCTGCTTCCAGAGATCACTTCTGCT
TGAGACTGTGAAAAGAGGAAGTCAAA

Sequence 464

AGGTACATTTCTTGTTTAGGAGGGTTTTCTATCTACCTTTCTACTGAAGTAGTTTCTGG
AATTTCTGTTGGATCAGAGTTACGTAATGCAGTCTG/GCCTTCAGACTGCTAGTTAGA
ATTGTTTTAGGTGTTCAAGAGGGCAAAATAGGCTGATGTGGCCTGTCAGAGTGATGTGT
TCTCAAAAAGTTCACTTGCACATCTGTGGGCCGCTTTTGTCTCAGACCTTAGTGGAC
AGACTCCACAAACCCTCTGATGAGACGATTGATGTGGCCAGGGTCCAGTTAGCATCAGTA
GAAGGATGTCACTAGGAAAGGCCAGGTATCTGTAAGT

Sequence 465

CCGCGGTGGCGGCCGAGGTACCTCAAACTCAGAGTTTCTTCCCTTCTTTGATTTCTGGA

Table I

GGACCTGCAGCTGGCCTTCCTGAGACAGGCTCCATTCTGTTCCATTTGCCTTCCCGGCA
GCCTTCCCTTTAGTGGGTATAGGTTTTGACGTTCTGAGTTACTTTGTATCAAAGAGCTAA
TTAAAAATGGTCCCTTCAAAAACATAAAGAAAAACAGCTTGA AAAATGTACCTGCCCGGGC
GGCCGCCCGGGCAGGTACCAAAAACCAACATGACACACAGGAAAAAATAAAGTGCAATT
TTAATATAGTGAATGTGATACATGTATAATTCCTCATAACAAAATGGGCAAAACCTT

Sequence 466

CCGGGCAGGTACCTCAGCTATCAACATTTCTGAGCTACCATTC AATGTTCTCTGTGTCA
TGGAGTGAAATTCCTGTTTTGTGGGTATTAGGAGTGTGGGAATGTGATAACCTAAACAAC
CTTTGCTCTGAAATTCCATTTTTCCCTCTTTCCCTGAGTTGTATTGACCTACAGAGTTAA
TTTCTTTGTATTTTTTAAGAAAATATTAAAAATCAACGGTCTCAAAAACCTCGGCCGC
CCGGGCAGGTACTCCAAGATGAGCTTGACGCGGCTGTGCAGCATCTTGATGGCGCTGTGC
TGTGCTATCAGGTGT

Sequence 467

CCGGGCAGGTACTTGGCATATATTAGGCCTTCAAATGATGATGGATGGATAGACAGATAA
AAGGCCCAATGAATGATTGTAATGTGTCTTCTCCTATGTATCCATGATGATATTGCCTA
GTTTTTAATACAAGCTTAAGAATCAATAAAATGATAGATCTGAAATCTGTAGATGCCAGT
CTGGCTCAGTATTAATACTGACAGTAGTTTTTTGTTTTTAAGAAAGCAAGTATATTAA
AATATCTCTGTTAGAAAAGATTACAATTTGAAAGGATCATTCTACAATCTTAGAACTAA
AAGCAATTTAAGGCAAGAGG

Sequence 468

CCGGGCAGGTACTAGGTTAGAACATTGCTTAATCCTTTTAAAAANATGCATTNACTGTA
AACACAGAATACTGAAATGGNGGATTTTTAACTATNTCTGACATAATTTTATTCATCA
ATTACATTACACATTCATTTANCCAGATTTCAAATAGGGGGGGAAGAAAGAAACTGTAT
TTCAGAGTAAATCTCCTAAAGGAAATANAAACACAGAGTTGTAATNCACATGCTTGCA
AAAACATTAGTCGTGAAATCCCTAGCAACAAGTCACTGGATTTTCTCTGTCAGCACGCG
TGTCAGCTGCCAA

Sequence 469

AGGTACAAATGTGGTGTGTCTTCCAACCTTCATTGAAAATGCCATATCTATACCATATTT
TATTCGAGTCACTGATGATGTAATGATATATTTTTTCATTATTATAGTAGAATATTTTTA
TGGCAAGATATTTGTGGTCTTGATCATACTTATTAATAATGCCAAACACCAAATATGA
ATTTTATGATGTACCAAGAAAGTCGGGATCGTCGGTAAATACGGGACCCGCTATGGGGCC
TCCCTCCGGAAAATGGTGAAGAAAATTGAAATCAGCCAGCACGCCAAGTACCTGCCCG

Sequence 470

AGGTTTGAGCTCCATAGAGACAGCGCCGGGGCAAGTGAGAGCCGGACGGGCACTGGGCGA
CTCTGTGCCTCGCTGAGGAAAAATAACTAAACATGGGCAAAGGAGATCCTAAGAAGCCGA
GAGGCAAAATGTCATCATATGCATTTTTGTGCAAACTTGTCGGGAGGAGCATAAGAAGA
AGCACCCAGATGCTTCAGTCAACTTCTCAGAGTTTTCTAAGAAGTGCTCAGAGAGGTGGA
AGACCATGTCTGCTAAAGAGAAAGGAAAATTTGAAGATATGGCAAAAGCGGACAAGGCC
GTTATGAAAGAGAAATGAAAACCTATATCC

Sequence 471

ACCGCNGTGGCGCGCGANGTACAGGCTGTGATNCGTGTGGCGATCGATCTTCTTAGATTC
ACGGTATCTTCTGAGCAGCGCGGCAAAATCCTCATTCTCCTNATCCATGTGACCTTNTC
TGGCATTGCGGCATTGGCTGTNCGAATCAAANCACTTACATGAGGGGGCAAAGTCAGAGA
CAGNTGAGGAGCTGAAGAAGGTGGCTCANGAGCTGGAGGAGAAGCTANNCATTCTCAACA
ATAANTATAAGATTCTGCNNGCGGNCCAAGAACTGTGACCACAGGGGCANGGCATCCACCA
CCANAGATATGCCTGGCNGGGGCCAGGACAAAATGCAAACTTTNTTTTTTCTGAGACAG
AGTCTTGCTCTGTGCGCA

Sequence 472

AGGTACAAGCTTACCTTTTAGGGTAGAAAAAGAAAGATCATTTGAAAAATGTATCTAAAA
TAATCCAGAGAACATAATGTTTGTCTTGGTCTGATAATGATAAGAAGTCAAGGATTGGCA
GAGAAAATACTAAACGCCAAGAGTTGAGCCTGTGGGTCTCTCCATAAGAGTTTTAAACT
CTTGCCAGTTACCACTTTATCCAATTTGCTATCATTTTCGTATTATCAGCTATCGCCCTG
TAAATATTCAAACCTAGCTATTTNTAAAGTAAACATTTTATCTGTTACTTTTAACCAGA
TAGGTGTCTTTGTATCCTTCTACTATAAATTGTTCTTTGCCAACCTGTACCTGCCCG

Sequence 473

CCGGNCAGGGCTGGTTTGGGGCACAAAGGAAGCCTTAGGGTATGGGGAAAGGCTGTTATTA

Table 1

CCTAGAGTTTACTCCCAGGCCAGGGGGCTGCCATCTTCTTCACAGACATCCCTGAAAGGA
 AGCCCCCTTTGGGGCAGGGAGGTGAGGACTTCATCTCAACATCGGCTGGTGGTTGGTAGGG
 GAGCTTTTTCTTTCTTTCTTTTGTGTTTTGTTTTGTTTTGTTTTGGTAACAT
 GTTAGGAGTCAATGTTGCAAAGAGTAGTTTACATCTTCACITTTCTGAAGACACTTGAATT
 TAGGACCGATGTATCTGTGACAAGCATGCCAGAAGTGGCAGGGGCCATCAGGGCTAACCA
 CTTACACACCTACCATCGTCCCATGGGGATCCAAGACCTGAGATAAAGCAACAGCCTGCC
 AGATCCCTCTGTTTCATCCTATCCCTTCCAAGGTTGGTCCATGCCAACATAACCTCTGGGC
 ATCAGACATCAGCAGGTCTGTGTGCCTCAGCCCTGTTAAGGGGCAGGTTTCTCTTAGCC
 CTCTTCTGCACTTGGGAGCAAANGCACTACCAGTNGAAAAAGGGCCATTAGCCCGTGCC
 CCCAACCTGGGACCCCTGGGGCTCAAATAGAGGTGCTGAGCCCTGTGTNAAAAGTTGGT
 AAATGGT

Sequence 474

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATTATTTTCAA
 ATATACAAGGATCATTTACCAAGATAAACCATAATTTTGGGCCATAAAACATTTAGGATT
 GAAAATACAGAGCAAATTCTCTAACCACAATAAATTTAAAAAATCGATAGCCAAAAGATA
 ACTGAAAACCTCCCCCAAATGTTTGAAAAATTAACACATTTCTAGAAAAGTCATAGATCAAA
 ATTAATTAACAAGGGAAATCTGACACTATTTTGAACACGCGTTCATGAAAACACATCAA
 AACTTGTGAAATGCAGCTAAAACAGTGCTTGGAGAGAGAAAAGTTCTAAAATTACTAATA
 TAACTTCTACCTTAAAAAGCTAGAAGAAAAGCAAACCTCAAAGTAGAAGGAAAGAAATA
 AAGATAACTGCAGAAATCAATGCGATAGAAAATAAGCAAATAGAGAAAATTAGTAAACC
 AAAAGTTGCTCCTTTAAATGATCAATAAA

Sequence 475

CCGCGGTGGCGGCCGCCCGGNCAGGGCTGGTTTGGGGCACAAGGAAGCCTTAGGGTATGG
 GGAAGGCTGTTATTACCTAGAGTTTACTCCCAGGCCAGGGGGCTGCCATCTTCTTACA
 GACATCCCTGAAAGGAAGCCCTTTGGGGCAGGGAGGTGAGGACTTCATCTCAACATCGG
 CTGGTGGTTGGTAGGGGAGCTTTTTCTTTCTTTCTTTTGTGTTTTGTTTTGTTT
 TTGTTTTGGTAACATGTTAGGAGTCAATGTTGCAAAGAGTAGTTTACATCTTCACITTC
 TGAAGACACTTGAATTTAGGACCGATGTATCTGTGACAAGCATGCCATAAGTGGNAGGGG
 CCATCAGGGCTAACCACTTCACACCTACCATCGTCCCATGGGGATCCAAGACCTGAGATA
 AAGCAACAGCCTGCCAGATCCCTCTGTTTCATCCTATCCCTCAAGGTTGGGTCCATG

Sequence 476

AGGTACTGTTCTATACTATTCAGGTATCTTTTTATTTCTGATAGTTTTATATTATAATAG
 AAAGCCAGCCACTGCTTAGCTATCATAGTCACCATTTTCTCACTGTTAACATTAGGAAA
 TCAAGGCTACTATGCTTCAGGATTGTCTGGTTAAATAGTATGGGAAAAAACTGAAGAGT
 TTCACATAATTACACACGTGAAATAATTAAAGCTTAACTGAATTTGATTTTCATTTTAT
 TGTCAGATGGTGGTGTTCACCAGCCTGTATCTTGTCTGAGACTGCATTCGTATCTGAGCA
 GGTTTTCTATGCCTACTGATGTGAGTATGTTTATACTAACCTTCATGCTTTTTTCCCAGA
 ATCCCTCATCTGCCAGAAAACCTTGAAAAGTTTATTGCTTGTAGAGTTGTACCTGCCCG

Sequence 477

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCAGCAACAACCTTAAGTGTTT
 TATCCTTACGGTCAGCTTTGGTTAAACAGTAACATAACAAAATTAATAGAATCATGCAT
 CGCAGGTGATAAATGATTCAAATGACAGGAAATCAATTTAATTAAGAAATAGCAACACT
 TAAAAAATGCATAGGGTTGAGCACCCGTATTATTAGGGTGGATAATTTAAATGTATAGA
 AGAAATCAGTTTCAAGATTTAATGATTGAATAACATTCTCTTTAGCAACTATGAGTGTGAA
 ATTTTGGTTAATGATACCGAAAATATTAGGTTATAGGAAGTTACAGTATTACATAAGGTG
 AGCAAAATAATCTAATCCAATTAATATAACGCCATCTGGGGCT

Sequence 478

CCGGGCAGGTACATTCCAGGCCAAAAACAGGGATCTCAAGGNGGTCAAGAAGAACATTCTG
 GATAGCAAGCCCACTGCAAAACAAGAAGTGCGACCTGATCAGCATCCCCAAGAAAACCA
 GACACGGCCAGTGTGCAAAATGAAGCCAAGTTGGATGAGATTTTAAAGAGATCAAATCT
 ATAAAAGACACAATCTGCAATCAAGATGAGCGTATTTCCAAGTTAGAACAGCAGATGGCA
 AAGATAGCAGCCTGAAGGTCCCACCCCCACCCCTACAGAAAAAATGGGAGCAAGAACTTG
 TGCTTGGGAGCTGGTTATTGGTGTGGTCTAGGGAGGGCGGAAAGGGAGGCACTGCCATT
 TGGAGACATTCCATTTTCAGATTTGTCACCAAGCGATAGGCCACATTCCAGTAAGAACTCA
 ATTTGTCTCCCAAATTTGCAGAAACAAAACGTGATTTAAAGCTGAGCTTTTTATCAGAA
 AGCTTTTTTGTATGTTTTAAGTGTTATGTGACTTGTGAACTTTTTAAAAAGTGCTNCTTT

Table 1

TAAATCCCAGATACTCTGAATTTTAGAAAACAACTAATTCTGATTGNGTCGTGCCCAA
GTACCTNGGCCGTCTAGAACTAGTGGATCCCC

Sequence 479

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAGAAACCCACCTCACCC
CGGCTCACATCTAAAGGGGCGGGGCGGTGGTCTGGTCTGACTTTGTGTTTTGTGCCCT
CCTGGGGACCAGAATCTCCTTTGGAATGAATGTTTCATGGAAGAGGCTNCTCTGAGGGCA
AGAAACCTGTTTTAGTGCTGCATTGCACATGGAAAAGTCCTTTAACCTGTGCTTGCATC
CTCCTTTNCTTCTNCTCTACAATCCATCTCTTTAAGTTGACAGTGACTATGTCAAGTCT
AATCTCTTGTTGCCAGGGTTCCTAAATTAATTCACTTAACCATGATGCAAA

Sequence 480

AGGTACAGGTTGAACATTCGGTTCCAACAATCCAAAACCCCAATGCTCCAAAATCTTAA
ACTTTGAGTTCCAGCATTCCGTGAGAAGTGGAATTTTACACCTGACCTCATTTGACAG
GTGGCAGTTACAGTGCAATCAAACTTTGTTCCATGCCCAAGATTATTAATAATATTGA
TAAATTACCTTCAAGCTATGTTGTATAAGGTGTATATAAAACAAATGAATTTGTGTTT
AGACTTGGGTCTACTCCCAAGATACCTCATTATATATATACAAAATCCCAATCCAAA
AACATTTGAAACACTTCTGGTCCCACACATTTTGGATAAGGGATATTTGACCTATATCTA
ATTATATAATAAGAAAATGTATTTCTTTTTTTTTTTTGTGAGATGGAGTTTCACTCT
TGTTGTCGCCAGGCTGCAATGGCACAATCTTGGCTTACTACAACTCCGCCTCCCTAGT
TCAAGGGATTCTCCTGCCTCAGCCTCCAGGTAGCTGGGATTACAGGCATGTGCCACCAT
GCCTGGCTAAT

Sequence 481

CCGGGCAGGTGGCAGCTCTGGCCCTGCTCTTTGCCATCCACAGCTACAAGCCAGCCCCCT
TCTTCGTCCTGGATGAGATTGATGCTGCCTTGGATAACACCAACATTGGCAAGGTGGCAA
ATTACATCAAGGAGCAGTCGACTTGCAACTTCCAGGCCATCGTCATCTCTCAAGGAGG
AGTTCTACACCAAGGCCGAGAGCCTCATTGGAGTCTATCCTGAGCAAGGGGACTGTGTGA
TCAGCAAAGTCCTGACCTTCGACCTACCAAATTTCTGTTAATCGAAATTAACCCGAA
AGGCTGGATACCTTAATGCTAGGAATAAACAGGCTTGGTGTCTACCTGGGACAGAC
AGTTTTACTTCACGCAGGGTGGAAATTTAATGAGTCAGGCCCGTGGGGATGTAGCAGGAG
GCCTGGCCATGGACATAGACAAGTGTCACTGATGGCTGTGGACTGTGAAGACAGACGAT
ATTGTTTTAGATCACCTCTTTCGATGGAAAAAATCTTCAATTTTGAAGCAGAGAGTA
AAAAAGATCATGAAGAGTGGATCTGTACCT

Sequence 482

CCGGGCAGGTACAGAAGAGAGATGACGCCTCCGGCTGGGGAGGGAGGGGCTGGCGCCTCT
GAGAGAGCCCATTTATTATCAGGGTCACGGCCAAGACCGTGGGCTTGGTTTCTAGGTAGG
TGGACTTTGAGGGGCAAAGACAACCCACTTTTCTGCCCTTACCCCCGGCTCTTAGAGA
CCATTTAAATCCATATCCAAAGTATATCCAGAGCCACCTGGGACCATCAGGCCTCTGGCT
AGTCTTTCTGGGCAAACCTGTCTCCACCCTGAGGACCCTCAGGGAACCAGGAAGGTGA
GGGGCTGGCTCCGCCCCACCTGTAGCACAAGAGCTGGCCAGGAGGAGGCTGAAGATGTG
TTTCTAGTTCTCTGCATGCTGCTTTGTTGTGTGACCTCGGACATGTCACCTCCAGCCTTCT
TCACCCACCTCACCTATCACTAGGGCTAGTAATTGCCTGTGGTGGGTGGGCTGGGGGGC
TCTGATGCCAAAATGCAGGTAGAAGACACACTGTGAGAGGCAAACGTCTTCACTCATCCT
GCAGGGAAAGGCCAAGTGAGCATCTGGGACCCATTGAGCTGAATGACCCCCAC

Sequence 483

CCGGGCAGGTACGCAAGCCTCTTCTCTCCCTTGATGTGGTAGCTACAGGCAGTTACATTC
CTTTGCTGCTTGTGAGAAGCTTACATTTTGGCATTTTCTTCCAAAAATTACCACGTTGAC
CAAAGTAAACATTACAAGAATATGAACCTGTTATTGGGGGAAAGGGGAAGTGAAGCAATC
TGTAAGAAATATTTAACTGAAATTACAAACATAAGGACAAGCCTTTAAAGCAAAATATAC
AGGCATTTTGTCTCTCTCTGGTCCCTGCAGTTAATTAACAGGGCCACAGATAATCTGA
CATCTTTAGATAAAACAACACACCTATATTACTTAAGTTAAAGCCAGTAAGTTCAAA
AAAAGCAATTACAACCATTTGACATGTTTGTATTTTTCATCTCTAACTCCTGATTTCTTA
AATTACATTAGTCATACAAACATGGCTGAACAACAGCAAATGGGATCTGACTCTGGGAT
GTTTACTTCTTGGGATTAAAAATCCCAACACTTTGGTGTCTCTTTCTTGTGAATCTATA
CAACATTTCCAATAAATGTTTAATAATGATTTTTTAAAGATATTGCCAAAATGGCTCA
GATTTAAGATGAAATAAAAAAC

Sequence 484

CCGGGCAGGTGGCCTGTTCACTTTCTCTTACTCACTGTCTATTCACTTGTCTCTGTTCACT

CGTCTGGAAGATCTCAGCCAGCACCATGACTGACAATGAGCTGTCTGCCTTGGTAGTGGA
TAATGGGTCAGGGATGTGCAAGGCAGGCTTTGGTGGTGACGATGCCCCCCGGGCTGTGTT
CCCCCTCCATGATAGGGCGCTCTGACACCAGGGCGCTTATGGTAGGCATGGGCCGAAGGA
CTGCTACGTGGAGATGAGGCTCAGAGCAAGAGAGGTCGTGACCTGAAGTATCCTAT
CGAGCATGGAGTGGTCACCAACTGGGACGATATGGAAGAATCTGGTACCT

NCGAGGTGGACAANAAACACGNATGGCTAGGANAACTATCAATGCTGGCAGCCAGNTTG
AATANAATGTGGAAGGAGTGACTTNC AAGGAAANGGCTACCCAAC TNGCCTNCATGCGCC
TGCTGGCCAACATAGCCTCTCANAACATCACCTACC ACTTGCAAGAACAGCATATGCATAC
ATGGATGAGGAGACTGGCAACCTGAAAAAGGCTGTCATTCTACAGGGCTCTAATGATGTT
GAAC TTGTTTGCTGAGGGGCACAGCAGGTTNCACCTTACACTGTTCTTTGTAAGATGG
CCTGCTCTAAAAAGACAAAAATGAATNGGGGAAAAAGACAACTCATTTGAATACAAAANACA
AAAAAAGCCCATCACCGCNCCTGCCCTTNC TTGANATTGGCACCC TTTTGGACATCGGGG
GGTGCCCTGACNAAGGAAATCTTTTTGCNGGACATNNGGCCANTNCC TNGTTNCAAAAANA
AAANTGAACCTCAAATCTAAATTAATAAAAAAGAAAAAGAAAAATTTGNAAAAAACTTT
TCCTCTTTTNGCCNAGNCCCTTTTTCNTCCCTTTT

AGGTNNTGACACACAANTACANACATAGTCCCACTTAGGGTGNTGATATTNCTTTAAAAA
AAAAACAANGGGTCACAAACAATAAGACATCACAAATAAACCATCNAGAACACANTT
GCCAANAATGCCAAGACCAATATGCTACTGAAACAACCTGGTAGAATGTCACANACAA
NTATTCANNATGTATTGNAATAATTACTTGNAGTTAANGANNCGGAAGGTAAAAACAAA
CNGGGANAAGAANTAACCTCTTGAAACTGGGCTCTTGGGNTNNAAGAGGATCTTTTNA
CAANTNTANTTTTTTAAACCATACCTTTGTTTATAAAAAAAAANGTANCCAAANCTAC
AAGGTNNACCTCGGANGGGA

[illegible]

Sequence 10
GANTTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACCAANGCAAAGAAAGCTGGGG
GGCTCCATGTTCACTGCCAACCACATGGATCTGTATATCAGGAGAATTGGGTGAGACACAG
ATCATGCAGATTTCCAGGAATGTGCTAGAGATGACCTTNGAGTGCCAGAACTTGGGGAAG
CTTACTACTGTCCAGATTGGCCATGATAACTCTGGGCTGTATGCCAAATGGCTGGTGGAG
TATGTGATGGTCAGGAATGAGATCACAGGACATACCTACAAGTCCCCGTGTGGCCGGTGG
TTAGGGAAGGGCATGGATGATGGAAGCCTGGA

CCGGGCAGGTACAAGGTAGTGGAAATTATNTCTTATATTGCTTTTTCCAAAAAGTAAAAAC
CAAAAATGTGGGCNCGGGTGTGGTGGCTCATGCCGTGAATCCCAAGCACTTTGGGAGGCT
GANGCAGGCGCAATCAACANNCGCAGGAAGTTCAAGAGCCAGCTGCCCAACACAGTGAAC
CCCGCNTNTACTAAAAATACAAAATTAGCCAGATGTGGTGGCGCACACCTGTAATTCCCA
GCTACTCAGGGAAGCCTGAGGCAGGAAAATCGCTTGAACCTGGGNAGGTGGGAAGTTGG
CAAGTGGGAAGCCCGAGAATCGCACCACTTGCACTTCCCAAGCCTNGGGTTGGACAAAGAAG
CCGAAAACTTCANCTTAAAAATTTTTAAAAAAGGAAAAAGTGGAAAACTTAAAA
AAATTCCCCTAATAGATAATATTTCCCAAGGAAAATTATTTTTAAATT

CCGGGCAGGTACCAACATTATTAATCCTCACAACCCCCTGTGAGGTAGGTCAGTATGG
NCTTTAGAGTCGNGAACTGAGGCAGAGGTCAAGCAAACCTGCCCTGGGCCACAGAGCAGC
ACGATGAAGGGCCTANACCTGGATCCAGAAGCTAGGGGCTCTTCGGNCCAGCATTCATCC
ACTGGTGGACATNACATGGGGCTTATTTTTACCAAGCCGAAGGTTACCGTGAAGGGACAA

Table 1

AACCGCACTCANCCAGCAACCGGGAAACTCAAACAGTTCAAACAGCACCTGGGGGGAACA
TGTTCAGTGTAAAGGAGACGAAACCGCTGACCAGCTCATGAATGGAGGGCAAGGACAA
CCATGGCGGCTTAGGGGAAAGTGTGGGAACTCAATCACCAGCTGGGGGATTTAGGAA
CCCAAAGAAACCGGGGGCGGCTTCAGGGGAGGGGGTTTCAAGGGAAAAATGGTTAAACA
AAACCTNAGGGGAACCCCCCATCCCAAGGGGGGGGAGCAGGGCCCCAAATGGCCTTACC
GNTCTTNCAAAATGGGTAGAAAAAATTTTGA AAAAGGAATAGNGGGGAAAA

Sequence 491

TCAGATCCAAAGCCAGCACGGCACCGGGTTTCTTGCCTAAGGTCATGGTGACCACTCCT
TGCGTATTGCCAATGTTCACTCAAGGCCCAAGCACTCTTTATTCAGCTGGTGAGCAATCC
AGCCAGGCTGTGTGTTTTCCCTTCAGATAGCAGAGCTCCCCCTAAGGCCCAAGCAAGTCC
TAAATGTCAATNTGGGAGCCAGGACCTGGAATCAGGATCCTTAGGAATTTACTTGGTGCT
GTATTCTACTATGGCTGAGCTGGCAATCAAAGTGGCCAAAGATTAAAGCCCTTTATTTCT
TGNTCTGCTTTCCCTC

Sequence 492

[illegible]

Sequence 493

ATAGGGCGCAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTTTTGTGGGGTGCAG
TGAATGAAACTAAGAGTTGTGGCACCTGAAAAAGACACCAAGTGATTTGGGTATTTGGGTAG
TCGATTGGAGACATTTGATTTTTTTTTTTTTTTCACATGGGAAAGCTTATAGATNCCAAGTAG
ATGGAATTNGCAATCCTTTGCAGTTTGTCTCATTACAGATAATCAACATTTNTTTTGT
TAATTCAAATCATGATCAAGTTAATTGGTAAATTTTATTGAAATTTAAACATTGCATTT
TTATATATGTGTATGTGTACCT

Sequence 494

ATAGGGCGCAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAACCTGAATGATATTNNGA
CCACATCCATGCAGGGTGCTNACACTGNGACATNNGGAACGTGATATCAGGTCAGCTCTCT
GCCTGNCCTCANTATGCATCACTATATCTCATCAATATGAATCATATGATANCNGAAGGN
GNTGAAACAAATGAAGCNGGCTTTATATTAATCTGTGTNNAGTCGATAGAACAT
GGGNTCACATTCATAATATTATGTGATTTCATACATGCACAAAACCTT

Sequence 495

GGTACTTTACCCCTTCAACGGGACANGAACTGCNCCAGAAGTCAACTTCACATTTGAAGG
AGAAACGGGAAAGGNTCCANGATTGAAGAAGACACACATTTTATCAAAGACTTAAGTCC
ATGAAGGAACNCGNTAGAGCACANAATATTCAGACAATTTTGGAAATGTATCTCCAG
AAATGACGCTCGNNCTACATTTAGCCTGGGNCCTGCCTGNGGCTTATATAANATTGGCAAG
AAATTCTACTTGAAGACACAATGGTATAAAAAATGGGNNAAAAAAATTNAACTGTCAAG
CCAAAGTGGGCAAAGCAAATGANNGACCTTTTATTTGGAATTTAAGANTACACCATTCTAC
TTTCAATTAAT

Sequer.ce 496

AGGT/ACTGTTCTACCAACAGCTCTGATTTGGTGAGTGCATTTTCTACGCCACTGCTCAG
AGCTGCATNATCCGACTCCCAAGACTGTGTTAATGCTGCCACTGACCACAGACTTTGGTC
TTCTCCACACTCCGAGTCACTGCCCTTTGGTCTTTGCCATCACCCTGTGATCGTGCT
GCCACAGAATCCTTGGCCCCAGTCACAGTANGTCGTCACGACATCTTTTGGCCCCAGTC
ACA.GCGCCTTTGGCATTTGGGCAACAAATCTTGAGTTTGATGGGGCTGATTCAAGAAATA
AGGCAAGTTCCTCTCCTCAATCCCTGGTCTAAGCCCCCTTACAGGGCATAAGGGTATTGG
GGCCAAC TGGCAAATTTTGC GGGCTTCTAGCTTTCTGGGAATGAATGGGGCCAAAGAAGC
ACTGGGT CATGGGCCACCGGGAGGGTGAATGGTCTTTCAACAACCGTTTCTCTNTGCC
ATCTTCAACAACAGGAATCTTCAAGGGTAGGGAAACCTGGGGTCCCTTTGGTAACC
TTGCCCCGGGGCGGGCCCTTCTTAGAACTAAGGNGGGAATCCC

Sequence 497

GAGCTCCACCGCNGTGGCGGCCGAGGTACTTTTCTACCTTAAAAAAATCAGTGAGGATAT
TTATTTAATGAACATCAATTCTTTTAAATTTCTTAGAGAAATNGNCTCTGTGGCTCAG

Table 1

TTTTACCACCCATAAAGCGGAGACAGTAATTTATGGTTATTCTTTCTGACCCACAAAGT
ATGAAAAGTTCTTGTAANCTGTAACTCAGTTCTGNAATCTGCATTATTGAGATGATTAA
TATAAAGTTGTATTTTCACTGAAATGANTGTTTTGCTGGTTATGCTTGGTGAATATTTA
GCCGGGCTTATTTTTTTGAAAG

Sequence 498

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCGAGGTACAGTTAATCATTTT
GACTGTGTCAGTAATATAATCAGAATACTGTAACGGTAAGAGAAAAATACTTTTTTTTTT
TTTGAGACTGGGTCTCGCTCTGTGCGCCAAAGCTGGAATGCAGTGGCGCAATCACACCTCA
CTGCAGCCTCAACCTCCTGGGCTCAAGGATCCTCTAGCCTCAGCCTCCTGAGTAGCTGGA
ACTACATGCATGCACCACCACACTCAAGCTNATTTTTTTAAATTTATTTTAGTAGAGA
CAGGGTCTCACTATGTTGCCTAGGCTAGTCTTGAACCTCTGGGCTCAAGTGATCCTCCTG
CCTNAGCCTNCCAAAGTGCTGCGATTACAAGCGTGAGCCACCGCCTGGCCCCGAAAAATAC
CTTGGGTTTTAATCAATCCCATTCAATAGTGAAAAATGCTNTATGGTCCTTCCGGC
CCNTTTAAGAACTAGGTGGGATTCCCCC

Sequence 499

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTACCTGGGGGGGTTTGCT
TTCCTGCCTTTTCTCTGGTTGGTCAACATCTTCTGGTTCTTCCGAGAGGCCTTCTTGTC
CCAGCCTACACAGAACAGAGCCAAATCAAAGGCTAGCTGGAGATGGCCAAAGCCCGGAAC
CAACTGGATGCTGTCTTGCACTGTCTGCTGGAGAAGAGTCACATGGACAGGGAGCGTCTG
GATGAGGAAGCTGGGAAAACACCCTCAGACACCCACAATAAGGACTGCTCCATCGCAGCC
ACTGGCAAAAGGCCATCTGCCCCGCTTCCCCCACCAGCGGAGGAAGAAGAGGAGGGAGATG
GATGATGGGCTGGCTGAGGGAGGGCCGAGCGATCCAACACATATGTGATCAAGCTGTTG
GACCGGAGCGTGGACTTGGCCAGTTCAGCGAGAACACGCCACTGTACCTGCCCG

Sequence 500

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACANGAGCTCAGACCCGGGAGAC
CCTCAACGTCAACTTCTCCTGCGAATGGACCGCGCCACGNGCCNNGATCCGCTACTA
CACCTACCTGATCATGAACAAGGGCAGGCTGTTGAAGGCNGACGCCAGGTGCGAGAGCC
CGGCCAGGACCTGGTGGTGCTGNCCTGTCCATCACCACCGACTTNATCCCTTCTTCCG
CCTGGTGGCGTACCTGCCCGGGCGGCCGAGGTACTTNTACCACTGCTGCATGAGTATAA
TGCTCCGGAATTATCAGAAAGCATAATGCAGAAATACGAATTANTGGAACTTAATCATGT
GCCANATAAGCTTACCTAACAAACAGTTATATCCCTATTCTCAACTGAATGTCTTGTA
TAAATAAGAATTNATCATTTATTTCTGCAACTTTTTTTATGTCTCATTCTTAAACATT
AANAACCCTTAATATTTTAACAAAAATTTCTTGATTAGAGGCACAGTGAAAAAAGAAGTC
NAAA

Sequence 501

AGGTACNGTGTGGCTTGGTCACTTCGTGGCTAAGGTAAGAACGTGCTTGTGGAAGACAAG
TCTGTGGNTTGGTGAGTCTGTGTGGCCAGCAGCCTCTGATCTGTGCAGGGTATTAACGTG
TCAGGGCTGAAGTGTCTTGGGATTTCTTCTAAGAGGGCTGGCAAAGAACCANGTTGTTT
TTGTCTTGGGGTCTGTCAAGGGTTGGAAAGTCCAAGCCGTAGGACCCAAGTTTCCTTTC
TTAAGCTGATGTCTTTTGGCCAAGAACACCCGTGGGGCCTGTTACTTTGTTTTTGGATT
GGGAAGCCCGGGTTTGCAATTTTANCGCCCCTGTAAAAAATGGTATTTCAATTTCTTAA
TTTTAATGGTNAAANGGNTTTTTTTTTTGGTAACCCCTTNGCCCCGGGGGCGGGCCCCG
TTCTTANAAACCTTAAGTGGGGAATCCCCCCCCGGGGCTTGAAGGGAAAAATTCGATA
ATCAAAAGCCTTTTAATTGAAATAACCCCTTNCNAACCNNTCCAAAGGGGGGG

Sequence 502

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATGAACATACACACAC
ACACACACACACACACACAGAGGCCAATTTCCAGTGAGGAACAGGCTCCACAGAAGAA
GCTGATAGGCAGGGGGGATCAAACGCTGCTCCCCTGCTCACCAGTCTACTTCTCCAAATA
CAATATCTTGGTACTTACAATAAAGATAACAATAACTCTACCAATTATAAATAAT
GTAGCATTTTCATATTAAGACATTATCGTACCTGCCCC

Sequence 503

CTGTTCTACGGCAGTCAAGAGGCCAGGCTCTGTGGGCTCCAGCTCTGCATTTCTGGT
TCTGGGGNTGGGGCTGGGATGACTTCTGTTGGACTTGCTGCTGGGACTGGAAGTGAAC
TGTTCTCGGAGGGCCGAGGAGTCACTCTGCAGCCAGGGGAGGATAAGGGGGTCTGCTC
CCTCTACCCCTCCAGGGGGTCTCCCCACCCAGCTGCCGGCCCGTCTATCTACCCCT
AGCCCGTTACCTTGATAATCATAGTAGTCTGGGTTGTCGATCTGGTCGCTATAGTGGGTG

Table 1

TACCTGCCCCG

Sequence 504

AGGTNCATTGAGAATCCCACGAGCAATTCAGATAGACCAGTCACCAGGCCTCTAGCTAAA
AGAGCACTGAAATACACAGATGAAAAAGAGACGGAGGGTTCTAAGCCAACAAAACTCCT
ACCACTACACCACCTGAAACTCAGCAGTCACCTCATCTTAGCCTGAAGGATATCACCAAT
GTCTCCTTGTATCCTGTTGTGAAAAATCAGAAGACTTTCTTTTNTCCAAAAAGAATAA
AGCCAAGCCCAGCAGNGGGCTCTGCCTAAACCGTAGGGGGGACAAANGCCAGCCGTNGAA
CTATTAAGGGAGGCCACNCCTTGCTTTTGNAAAATGAAGAAAAGAGGGGGGACCCCTT
TTACAGAATTTTGNCTGTTTTTTGGAAATTCCTCCTATTTTTCAAGCANAAAAAGGGAT
TTNAGGACCGTTTCTAAAAAAAAGGNATTGAAACCAAAATACC

Sequence 505

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATGTNTTTGTCACTTAAA
GGTNCTTTCTGTAANCTGCTTCAGATNCTTINACTATTCAATTTTAAATNCTTAATNTCT
GTAAAGAACGTTAATATTCCTCTTTATAATCAATCTTCCAGTTNGCCTNAAAAATGTA
TTCCCTACTTTTGCTTCAGGAGATCAT

Sequence 506

GCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAGAGAAGGCACTGAATA
AATTCACAAAGGCCGATTGGTTACCCATTCTTTTAGNGACAACAGACACGCAATTCTGA
CGAGGACTCCTGTTACTAAAAGACACAGCCTCTGATACAAGAGAGATATCCCTTTGACTA
AAGCATTACCAAGGTCCCCAGGGCCCCCTCCACTGGGGCGGNAACACTACGGGTCTCCC
CACCATATATTCATGTCAAAGTATCTACACAAATACAGAGGAAATTAAGCAAGTAAATA
CGGTATGTAATTGTTATCATTTGTATTTCTTTAAGGCATATTTATAAATATTTTAAAGTA
AACAAATGAGTGAGTGCCCTTTCATTAGCTATGATCTTTCATACTGATATAT

Sequence 507

GGNGAATNGGAGCTNCACCGGGGNGGCGGCCGCCCGGGCAGGTACATAACATTTCAAATA
TAAGTGGAAAGGATCATCAGTAGTGTTATCAAAATGCATAGGNACAGANNCTTTTAAAGAA
AGGATAAAAAATTACACTCAGGACCCATAACTCTTCCTCATTATAAGCATATGTAGTGAT
TCATTTCATGCAGGTTTTATATGTAGATAAGGATTTTTTTTTNCTTTTCAAGAATCCAT
TGTANGCCATGAAGATGAAAAATTGTATTATGGGNAATNGGTATAGCTTTTCTTCTATT
TGCTTTTCAGTGTTAAGGGATTGCTTAAAGGCCCTTATTTTAAAAATTCCTCAACCTGAA
CAATAAATNGNNGTTTTTCCAAATAAANGGGAGGGAACGCTTNNCTAACCTCCCGGGGA
AGACGGGGGGGGCCNGGNTTTCCCTTGGANGCCAAACCTTTNGGNTCCGNTTCTAAG
AAACATAAGTGGGANTNCCCCCGGGGGCTTNGCAAAGGGAAATNTCGNNNTATTCC
AAAGGCTTTTAAATCCGGAANANCCCCGNGGCGGANCCCCCNTNANGGGGGGGG

Sequence 508

ATNGGAGCTCCCCGCGGTGGCGGCCGCCCGCTCCAGCCGTGTGCCGCTATGGGAGTCCCG
GCGTTCTTCCGCTGGCTCAGCCGCAAGTACCCGGCCATCATAGTCAACTGCGTGGAAGAG
AAGCCAAAAGAATGCAATGGTGTAAAGATTCCAGTTGATGCCAGTAAACCTAATCCAAAT
GATGTGGAGTTTGATAATCTGTATTTGGATATGAATGGAATCATCCATCCCTGTACTCAT
CCTGAAGACAAACCAGCACCAAAAAATGAAGATGAAATGATGGTTGCAATTTTGTAGTAC
ATTGACAGACTTTTCAGTATTGTAAGACCAAGAAGACTTCTCTACATGGCAATAGATGGA
GTGGCACCCACGTGCTAAATGAACCAGCAGCGTTCAAGGGAGGTTCAAGGGCATCAAAAG
AAGGAATGGAAGCCAGCAGTCGAGAAACAGCGAAGTCAGGGAAAGAAATATTGGCAAAAA
GGTGGCTTTTCTTCCCT

Sequence 509

TATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTGCGTTGGAACCTT
TTGGGGATGTGACAGAGAGGAAGCAGCTCCGGGACAAGCTCCAGTGTAAGACTTCAAGT
GGTTCTTGGAGACTGTGTATCCAGAACTGCATGTGCCTGAGGACAGGCCGTGGTTTCTTCG
GGATGCTCCAGAACAAAGGACTAACAGACTACTGCTTTGACTATAACCCTCCCGATGAAA
ACCAGATTGTGGGACACCAGGTCATTCTGTACCTCGGCCGCCCGGGCAGGTCTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCATGGNAAATTTNGCTTTNTT

Sequence 510

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTAACCTACC
TTTAAGACTGGGATAACTATTGGAACAATAGCTAATACCGGATATAGTTATTTATCGCA
TGATGAGTAATAGAAAGGAGCTTCACAGCTTCACTTAAAAATGGGGGTGCCGGAACATTA
GTTAGTTGGTAGGGTAATGGCCTACCAAGACGATGATGTTTAGCCGGGGCCGAGAGGCTGT

Table 1

ACCT

Sequence 511

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGNNCNGNTAGCCATNAATCATAN
ATATAGGANACAGCANCTATACANCTGACATNACCANTTAATNTTATATNATGAAAGCAN
NNCATNTGCNTGTGCATCAAGGCCAGTCCTATTCAACCNANCTNTCGAATGCTGATANCT
GGATAGNATGTGCATNNTGAAGNTGNCACATAACTTNTCTAAAAAAAGCANTCTTTGTTG
NNTGCTTCTTCCCTACNGATGACTTCTAAAAATATATGACAGGGGTAAAAAAATTAGCT
ATACATGATCATATCAACACATGTAAGTCTGAAATGGCATTCTA

Sequence 512

CCGGGCAGGTACAGGTTCAAATGAAATTCAGGTTGTTGCAGGAGACCATGTACATNTTGC
AGTATGGGCCGCGAGTTATGTTAATATGCAAGGTTAAGCAGAAAAAGCGGANCCGTAG
GGAAACCGAGTNTGAATANGGCGACTTTAGTATATTGGCATATACCCCCC

Sequence 513

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGCTAGCACCATCTGCTAGACTT
GAAAAATCTACTATGATATCAATTATTTTAGACTTCTTGTTCAGTTTCATTATTATTTT
AAATATGGAATTATTTTATATGAAAAATAGTTGTCCACAGGTTATTTTATCTTTAATA
GTTATATATGAGAGGAAGGGTCAACAAAACAATATAGATAACACTGGAGTCTCGCTGTAG
TATACTCATTGTGTTCTGTTAAAAAGAGTTTTGTATTATAGAATGTACCTGCCCG

Sequence 514

AGGTACTCCTTTNTTAAAAACACTGNAAGTAACCACACATATGTGAGGACTTACTATN
TTAAATGGAATGGANTGAGCTCCATAGATTAGTTNTGAATATAAAGTATATAAAAGTGCA
TCAGNGGTTTATATAGGCTTTAAAAACATGTTATCTTACAGTCCTTTAAAGCAGCCATAG
AGTTTGTATCATTTTTCAAGCCAATTTTCAGTCAGGGATTGAAATGNTTGANTATTGGAT
GATAAANNNGTCCATATCTTATNAANATGNGTNCNGTNCNGTTCNTTNGTTANATATG
ATTNAGGGGGGAATTCATTTTTTTTTNCCCTCCATGTTAAATNTCANAAAAACNNTAAACA
GTTGGCCNTTTNTANTNGGNNTTCCCTGCNCCCCAAGGNTTNGNNNCNCCCCNNGGGGGG
NAAAAATTTTAAAAATTTTTTTTNCNNAAAAANGAGGNGGAGGNNNCCCCCCCCCCCCC
CCCTTTTTTT

Sequence 515

GCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTCANGCAAAAATTGCACGNGGTTG
ATGCCTTACATGAAGTACCAGTGAANAAAGNGAAGGTGCCGAGCTATAAACCTCCAGAA
TATTATTA

Sequence 516

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGCCAGGTACCAGTGGAGGAAG
GCCTTCCGGCGGAACATGGCAGTGAAGTCTCCGAGATGCGCTTGAAGAGCTCCTGGATG
GCTGTGCTATTGCCAATGAAGGTGACTGCCATCTTGAGGCCACGAGGNGGGATGTCACAG
ACTCGGTCTTGTGCTGCTGGAAGGCCCGCGCGGGAGCGGTGACCTCGGCCGAGGTAC
CCACCACCACTGTATGATGCTCATGAGCTCTGGCNTGCCATGAAGGGAGTAGGCACTGAT
GAGAATTGCCTCATTGAAATACTAAGCTTCAAGAACAATGGAGA

Sequence 517

GGCNAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGCCAGGTACAGCACTGGGCTTTATA
AAGACTGCACTCAGAACCACACTGCACAGTCCAGTTTTTTAAAAAGCTGCTACATGACAG
ACAGGTAATCCCACTGAGTGAATTTTGAAGAAACAATCAAACGAAGTAAACAAGAAACAT
AAAACCAAATAGCAAATGAATAAAGCCTGTTCTTGAACCTAAAAA
AAAAAAAAAAAAAAAA

Sequence 518

CCGGGCAAGGTACCATCTGAATACCTCTTTGAAAGAAGGAAGACTTTACGTAGTGTAGAT
TTGTTTTGTGTTGTTGAAAAATATTATCTTTGTAATTATTTTAAATATGTAAGGAATGCT
TGGAATATCTGCTATATGTCACTTTATGCAGCTTCTTTTGAGGGACAAATTTAAACA
ACAAACCCCCATCACAACTTAAAGGATTGCAAGGGGCCAGATCTGTTAAGTGGTTTCAT
AGGAGACACATCCAGCAATTGTGTGGTCAGTGGCTCTTTTACCCAATAAGATACATCACA
GTCACATGCTTGATGGTTTATGTTGACCTAAGATTTATTTGTTAAATCTCTCTGTT
GTGGTTCGGTCTTGGTCTGGTTTG

Sequence 519

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACTGTGAAATTAAGTGGCATCCTGG
TGGGCCCAAGGTTTTTCAGGACTGGGGGCCAATGACTACCCCCCTCTCTCCTCCTGA

Table 1

TCCCTATCTCTAGCTCTTATCACAGATTTTGAACAATTGTCTGTGAGGTTAATGATGGTT
TCAGAGGGAAGCCCTTTTCTCCCTGAGACTGTGTGGGGTTCAGTCAGCCTGCTGAAATT
GCTTCCACTTATTACCCATCCTTCTCTTAAAAAAGCCCAAGTTAGTATT
CTCTGTAGCTCTCAGACAGCTACAAGTGTTCTTGGCATATTTACCAAAGTACCTGCCCGG
GCGGCCGCTCTAGAACTAG

Sequence 520
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTGGTTTTAGTG
TGAATTTACATAGAATAAATTTACTTCATTTTCATGTGATCGACATGAATGACACAAAAG
CTACTTCATAATACTACTTTACAATAGTTTTCAACATTTCCATATGGTGCGACCCCTTTG
CTCTCATCAATTTTGGGTGTGATGAGAACAATAGGTATCCCGTTGGACATGATGTATTGC
GAAGAGCATATAAAGCAGAGGGAAAATGAAAAAGCAAGAGAACTCATTTCAATGCTTTT
TCTAAAAGGTAACAAATATAATTTTAAATCAACTTCCTTGGAAAATATTTTAAACAGGT
ATCAATAGAAAAATTACAAACATCATATGAAGCTATAAATAATTTTAAAAACACCTC
GGCCGCTCTAGAACTAG

Sequence 521
AGGTTTAACCCCCAGGGNTAAACCCACCCAAAGGNAAAGANGGGGGNACACAAAGCA
CCGAACAGCAGAGCAGNNNAANNCCNCGNNNACNAAACNCGGGGCNAGACACNAACNNGA
AAGAAACCACCCCCCGGAGNNAAAGGNANAGGANCANAACANGGGCACCAGCCAAAG
AAAACGGGCAAGGACNAAGCCCCCGGANCCACCCCGNGGAACCCCNAGAGGNGGA
GAGAAAAGAAGGAAAGGCCNGAAGAGAAAGCAAANCCNCACANNCAANCCGGAAAGGCC
CAAAGGCAAAGGGG

Sequence 522
TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGTNCTCGGTAAACGGGCC
GACTTAATGGGNAGATCAACGCGAAATCCTTGGAATATATANCAACAGCAACACAAAA
ACTGNAGCAATGAGGTTGATGAGATTGGGTAAGTTCTGCCGATAAAAGCCTCCCGTAA
GCTCGGACTTTGNCCGTCCTGGTGGCCAACAATGGAACAGAGCTATGACTGCACCCCTCA
AACTCAGTACCTGCCCG

Sequence 523
GAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTACAGGGTTGAGTATTCCTAATCTGG
TAATCTGAAATTTACATGCTCCGAAATCACAACTTTTGTAGTGCCACATGATGCTC
AAAGAAAATGCTCATTGCAGCATTAAAGATTTTCAAGATTTTGGGTTAGGAATGTTGAAC
GGTATAATGCAAATACTCCAAATCTGAAGAAATCCAAAGTCTTAAATACTTCTGGTCCC
AAGCACTTCAGATAAAGGATACTCAATTTGTATTCTTATTTGGAGATAAGAGATGGAGA
CTTACAGGCTGGGTTGGTTGGATTGGTTGCCTGTTTTTGTGATGTTGTAGTGGAAGCT
AGGAATGGTTTTTCAATTTTTTAAAGTGTACCTGCCCG

Sequence 524
AGGTACCGGCCATTGGTGCCTTGTGTGAGTCCAGAGGGCTGCCTCAATGCCAGCAGCA
ATGCCCTCCACCACCTCCTCACTCAGTACTGGGTCTGGGAGCTCCCGAAGGCTGTGGAGG
CCAGGGCAGAGTAAAGCTCCTGGGCTAAGCCAGTGCCCAAGCCAGAAAACATGCTGG
GCAGAAAAGGGTTACAAGGCAGGTAGTCTGGACACTGGATTCAACAGCTTGCCATCAGCC
AGGGAAAGTGAAGCTGAGGATGCATATGGAGCAGGGCCAGGAAGATCAGGAGAGCTGAGG
GAGAACAGGAAAATTGGGAGGAAGGAAGAGGCAGCTTANCAGCAAACTCCAGGAGAAATA
ACCAGCAGCCCTCACAGATTTGTGATTGTCTCTTAAAAAGATNTATTTCTCTTCTTGCC
TGAATGTACCTGCCCG

Sequence 525
CGAATTGGAGCTCCACCGGCGGCCGAGGTACCACCGATAATGCTATTAGC.CCAAACCGTG
GGTGTTTTNTAAATATTAATAGGGGGGCTTGATTCAACAAAGCCACAGACTTAACGTTGA
AATTTTCTTNAGGAATTTTCTAGTAACCCAGNTTCTAAAGTAGCTACAGCAAAGGGGGAA
ATATTATGTGTGANCATTTTTCTTCTTATGCTATATCCCAAGTTTTTTTCAGGACTCAT
TTTAAGTNAAGGCTAGAGTTGAGTAAGGAAATAGAGCCCAATGAGGGTAAGGTTGTC
TGAGCCATTGAAAGTNTTAAATACTGAAAAGAAATGGTCCACTTTTTATTTCANNGAAAT
TA

Sequence 526
TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTCCACGACAAATTCT
TCAGGCTCTGCCTCTTCAACTTTTTTACTCTTCCATTCTGTTTTTTCCCATTTTTTGC
AATGTAGTTTTGTTGGAGGCCATTTTTTATTGCAGACTTGAAGAGCTATTATTCACCGCC

Table 1

TCGAGCTGCTCCGACCTGCCCGGGCGGCCGAGGTA
CTTGTGCCTAGTTTTCAAGGTAT
TGGCTGTTCTATAGATGCAGTGATTGTCCCAGCTAGCTCTGTTACCAGCCTTTTGGTGTG
TCTTTATGTTCATTTGGAGAGTCAGGGCC

Sequence 527

[illegible]

Sequence 528

AGCTCCCCGCGGTGGCGGCCGAGGTACAAACTCTGGCCAGTGCCCTGTTAATTGTTAATG
TTGGTAGAAAGCAGATGTTGAATGCGTCTTTTAATTAGCTTCATTAGTCTTTCCCAAAA
CAAAACAGCTATGTCTGTAGTTAACTTACTACTCTAGTAACCAACACATGGAAGCATCAT
TGCACATAAAAGTTAAACATTTAAACAAAACCTTTAAACCTCTCAAAACAGATAATCATGAA
TTTGTGTTTATAAAATTATATAGAATAAAGGCTTTGTGTGTGGGGACTTTCAGACCTGCC
CG

Sequence 529

TGGAGCTCCTCGCGGTGGCGGCCGCCCGGGCAGGGTACAATTCGCCCCGTGAGTCTAGGA
AGATTTGNTGAGCGTCTGCCAACTGGCAGATGAGGAACCGAAGTTCAGAGAGTTGAAAGC
ACTTGCCCCAGGTCA

Sequence 530

AATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTGCGACCGCCACGGAGCAGTGGG
TTCTGGTGGAGATGGTACAAGACCACACCGGATGTCATCTTTGATTGGATTACAGAACT
CATTTTGGTTGGTGCCAAGACAACCTGGCTTTGGCATGATTATGATCTCCCTGGATTATGC
AAAGAAAAATGAACCAACCAATAAGACTTGCAAGACATGGCTGTATGAGAAGAAAAAGA
CCTCAAGAAAGCAACGAAAGGAACNCAAGAACAGAATGAANNAAGTNANGGGGGACTNG
CNAAGNCCAATGTTGGNGNTNGCCAAAAAGTGAGCTTGGNNNATTGGATNCNCNAGCCC
GAAGGGGANTAAAAGGGGGCCNNNNCANNTGNTNTNGNNNTNGGGGCCCCCTTGGTGGNT
NTTTTTCNCCAGGGGACCTTTTATTANCCTTAANAACNTCTAAAAA

Sequence 531

TGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGACAGTATGTCTAAGATGAGAGAGTTTA
GGGACTACTCTGTTTTAGCAAGAGATATTTTGGGGTCTTTTTGTTTTAACTATTGTCAG
GAGATTGGGCTAAAGAGAAGACGACGAGAGTAAGGAAATAAAGGGAATTGCCTCTGGCTA
GAGAGTAGTTAGGTGTTAATACCTGTAGAGATGAAGGGATATGACCTCCCTTTCTTTA
TGTGCTCACTGAGGATCTGACGGGACCCTGTTTA

Sequence 532

TTAATTGGAGCTCCCCGCGGTGGCGGCCGCGCCNNGGCAGGTACAATNNTTTATTANGGCAT
TTTTATTGCTCCGAATGAAAAGAGTGGAGCTTTAAGTAAATATGCCAAAAAATATTCCT
AGCACAAAAGCCTGCACCACTGCTTGAGTCTCCTTTAAAGATAGAGATCATTTCCAGCT
TGGCACCTTATCTCATACTCTCAACAATAAAGCTACTGGGTACCT

Sequence 533

GCCGAGGGCGGGGGGGGGGTTTGGGGGGGGGNAAGCCNNTTGGGGGGGGGTTTAAACNCNCCNANACACAGGNANGGGNINNNNACNCCNANNAACAAAGGGCAAAAAAAAAACNNCNCTNNNAGGGNAAAGGANAAGAGGGCCAAAAAAGCAGCNCNAANNANACAGGGNAANAAAAAGNAAAGCNCNGCGGCGCCAGCGCCGNGNNGGGCAAGCGAAAGCCAGCCAGGGNGGGNAGGGCCACAAACCAACGCGGGAATTCCCGNGGACCGGAAGAAAGGGAGGNNAANA NCCCAANNNGNNAAAAAANAACACNCANCCGAAACACANNNANAAGCCAGGAANCNGCCA TCTGCCNTAAAAGCCAGGNAACGGGNANCNCACACCCCNCGGGANNNACACAACCCCNNNCTCTNNGGCNGNAAGNGGAANCTGGAGGGGAGGGNCGCTCTTCTCCCGGACCCCGNAAACN GGGCCGNNCAANAACAAGGGGACCCCGGGCGGCGAGGAAAGNAAAANCAAGCNAACN AAACCGGNGACCCNNNGGGGGGCCCGGNACCCAGNNNNGGCCCCCTAAGGGAGGGGAAA ANNGNCNCCGGGGGAAAAACAAGGGGNAAGCGGGGGCCCGGGGGAAGGGGAAACC

Table 1

CCNCANAAAANCCACACAAAAAACCCANGCCCGGGGAACAAAAAGGGGAAAAACCCCGGGG
GGG
Sequence 534
ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGGCCGAGGTCANGAGGCCTGAATTCATGTC
CACAATGACCTGTGCTTAACCTATTCCAAAGGTCGCTAAAGATACTGTTACTACTATTGAG
ATATTATTGGCTACTTCACGTTTACATAGTAAATGTTTGCAGCATATAACATTCAATCAT
AAACCCATAATTAACCTATAAGTGTTAATGGACAACCTGTGCTTTGATTTTTGCCCTTAGT
GATAAGAAAACAAAGTAGTGAATGGGTCACTCCTCAAAGCATGGAACATTTTAACCTTG
CCTAGTAAGGAAAAACAAACAAAATATAGCAATTACATGTGGAACCCGTAACCTGCAAA
AAGTAACACAAATATTGTCTNAAAAGGTACCTGCCCCGGGCCGNGCTCTAAACTA
Sequence 535
CGGGCAGGTACATGAAATGGTTTTGAAACAATAGGAACAGATAAGTCCCAGATAGGAGGC
TCACTGATACTTAATTGGCCATGTCACCAATGTTTGTTTTAAGGGAGTTTGGTGGTTGC
CATGTTATCATTTTTTTTATCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCT
TTTCTTTCTTCTCTTCTTCTTTCTTTTTCGAAATAATTTACAGGCATATGAAAATACA
GTAAGAATACTGGGTCATAGTTTCATCCAGTGAAACTCTGTGACAATCCTTCACTAGAAG
GAGAGTACCT
Sequence 536
CCGCGGTGGCCGGCCGAGGTACCTTTCTCCCTCTCTACCAGTTTTCTCTAACTCTCTC
ACTTTCTCTTTATTTCTTTCACTTTCTCTAATGCATTCTGCAAGATCCTGCTTAGCAC
ATTTATTTCTCTCTCCGTGACCCCTCAGCTCGTGGAATGTGNATAATTAATCCATGCTTT
CAGGTGAGACAAAGACCGAGTTTCATCTGGCTTCTGCACACTAAGGACTTCTTTTCATAAG
CCTCCTCGGTATTTGCTCTGAAGTTTCTTTAAAGTTTCTGGGCTGAGGGTCAAGAAGCTG
TTCTCTTGAATCTCAAGTGGTTGTTAAAGCATACCAAGTTCTTGCCCTTCGGGGATTG
GAAGTTCCGACCTGTAGCTGGTTTTCTCTCTGCTTCAAGAAGCTTCTAAATCTCNTT
CTGGNAGGATCTTNGCAAAAATCTTNGCAAGTTGGCTGGAATTCAGACANTCAATT
GGTCAGGTAGGTGGGAATTTTACCTAAAAGAATGGTAATTAAGACAAGGATGGGAAGA
TNGAATTTGGGAAGTCTTGGGGGGAAGAAGGGTTTCNACCAAGGTTTTCCCAAGGGGAT
NGGGGCCCCCAANTTAAAGTTTGGGNGGGAATNGGGTNTGAAGNTNAAAACCTTAGGTN
TTGCTTCCCCCTCCTTGGGGGGNAAANTTGGGGCCCCNGNAAANTAAATCTGGGNAAACC
CCCTAATTTGGGNAAAGGGGA
Sequence 537
AGGTACCCTCTCATGAGGAGGAATCCATGCTGGAGGATTCTCATAGGCAGGCAAGAAAAAC
CACCGGGTAGTCATCATAAGGAATCCGGCTGTCCATCTCGGGGCAAGGCCTTAGCTAAACA
TCTTCTGGATGCCAAGCAACCTGTACGTACGCGGGAAAGTTGAAGGCTACAAGAAGACC
AAGGAAGCTGTTTTGCTCCTTAAGAACTTAAAGCCTGNAATGATATCAAAAAGGTCTAT
GCCTCTCAGCGAATGANAGCTGGGCAAGGCAAAAATGGAGAAAACCGTCGCCCCGATCN
AGCGCAGGGGGCCCCGTGCCATCATCTATAATGAGGGATAAATGGGTTATCAATCAAAGGC
CCTTCAGAAACATCCCTGGAATTACTCTGCTTAATGTAAGCAAGCTGAACATTTTGAAGC
Sequence 538
GGCGATTGGAGCTCCCCGCGGTGGCGGGCCCGCCGACGGTACGCGGGGGTGGCGGGCGT
TGGGTTGAGCGGGCTTTTTGGAAGNTNGNGCGGGAGTTCTGTGATAGCAACANTGG
ACCAGANGATTTTATCTCTAGCAGCNGAAAAACAGCNGACAACTGCAAGAATTTCTTG
GGCAGGGCCTGGGGAATGCTTTTTATCTCATATTAGTGCCTGTGATGGCATCTTTCATC
TAACACGTGCTTTTGAAGATGATGATATCACGCACGTTGAAGGAAGGTAGATCCTATTC
GAGATATAGAAATAATACATGAAGAGCTTNAGCTTAAAGATGAGGAAATGATTGGGCCCCA
TTATAGATAAACTAGAAAAGGTGGGCTGTGAGAGGAGGAGATAAA
Sequence 539
GGTACACTGATCAGGGACTGGAATCTTCTTTCCAATTTCCATGGCATATGCTTTCACTTT
GCTGAGGTTTTTTTTAAGTGCAAGTAGAGCTTATCTTGGTATTCTATAGGACTTGCAGT
TGCTCTGGAGTTTCTTCTGGGAGTTTCTTTAACAGTTTCTGACAAATCTCTGAGTC
TATATGTATAATATTGGGTATGAAACTGAAGACTCCCCAGCTGTGATCTCTCAGNCTC
TGCTTAAACGGCAGCTTGTCAATTCCTTGGCCAAGTGGGTCTATTTCTGAAAGAGAGAT
GCTGGCTGGTATGTCTCCCCTGTTTTCATCTTCCCGTCATCTGAACCCACACCCCTTTGT
GAGCATAGTGTGGAAGCCAAACTTTTTGACC

Table 1

Sequence 540

CCGGGCAGGTACAGGCTGTTACACAGCTTGCTCAGAATCACGCCATTCTTTCAGCCAGAC
 CTGGAAGCCCAAGCCGCCCANCGGGTCTGGGNCGGGCCANATTCAAGGGNCCNANCTTGA
 NCTTATTGNATCCNACTTCCAACNAGCCCGGCTTCCCTTCCNAGCTTCCCTTCGGTCANT
 ACTTTCTTTCTTCGNNTTTTTGGGANCTTGGCAACTTTCGGCGGGCTTCAATGGCCCNATA
 GGGAAAGGGACCCCTTGGTTGGGCCCATGGTCNTGGGGGAAAGAAGGCTTCTCAGGGGC
 TCGCAAGGAAGGAGTGAAGACTTGTGACCTCGGCCGCTCTAGAAGTAGTG

Sequence 541

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGATCTGGGTGGAAGGTGACTCCTG
 TGGGCGCGATGATGGGGTGGAGGGTGTCTGATGGAATCCCGTTGGGTCCCGGCTGCCCTA
 CGTCACCCCTTTTACCCTTAACCTCCGTAGAAACCAAGTCTCTGTTGCCTTGCTGTCTT
 TTGGTCCAGGGGGTCCAGGTGGTCTGCTCCCTGGAGCTCCAAGTGGACCCATCTGTGTC
 CCACATGCCCGGGCGGCCGCCCGGGCAGGTACTCTCAGAGAACAGGAGATATGTGTGCAT
 GCCTTAGAAAAAGCCCTTGAGTAGGTAAGGAAGGAAGAAACCTATGGCAGACAGGATTGC
 TGCAGCCAAGGGGGCTTCAAGCAGAAATGAAAGAGATGGCTTGTGAAGCTGCCCGTGTCTG
 TGT

Sequence 542

TTTTTTTTTTTTTTTTTCGNTTGGGGGACCCAAAAACCCCAANAACNAGGGGACCCC
 CCGGGCNGCAGGAANTCGAAACAAGCTAAACGAAACnnnnnnnnnnnnnnnnnnnnnnnn
 nnn
 nnTNTCTGGGGCNGGGGGGAAAAGGGNANCCGCNCACAANNCCANANAACAAACGAGCCGG
 GAGCAAAAAGGGNAAAGCCGG

Sequence 543

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAATTCTCTTTAA
 CCATTTGGTCTCTGATATAAACTTGCTTAACCTGGCAAGATGGCTCACTTGGTCTCTCAA
 GCCAACATCAAGAAATATTTAGCTGTCTTAACACAGGTGGGAGACTTTTTTTTAAATGAAA
 TACATAGGAATCCATTAAGTAACATTAGCATGTCATGTGTTAAATAGCTTCATTTAAAAA
 TGTTACAGATCAACAGAAGGGAAATCAAAAACCTATTTTCTCAGTAACTACTTTACATA
 CTAGTGTAATTAAGGTTTAACTGGAAGAAAAATTCAGCATAAAAGTATAATTAAGTAA
 AAAGCTGGTATTCCACATTCCTGTTCTATGAACACCTGAGCTGGCACAAAAGCTGAGTA
 GTTTAATGCATTGGCATATAT

Sequence 544

GAANTGAAGCTCCACCGCGCGCGCGGCCGCCCGGGCAGGTACAATTAGAAAACCTGCATC
 TTTAATACAGTGAGATTNGTATGCATACACTCTGGTGTCTTCATTTTGCAGCCCATTA
 TATTGGCTTAAAAGCCANAAAGGTGCTCATGCTAATTTATACTTGGAGCAACGAATG
 CCANTGTATGTGGNCGCGTNTGTGTGCACNTTTGAAAGGNAGGAGTTTTTAGAAGNAATG
 AGAAGGAAAATTTNCTTTCTTGGGCATTCAATTAATAATTCAAGNGTGAATATCCTTGTAC
 NCTTGGCCGNTCTANAAACCAGNTGGATCCCCCGGGGCTGCAAGGAAATTTCAANTNTT
 CAANGGCTTATTTGANNCCCGCGACCTCCNANGGGGGGGGCGNCCGGGTACCCCAANCTT
 TTT

Sequence 545

CCGGGCAGGTACATTATTGTTATNTGAAATTTAATTGAACTAACAATCCTAGTTTGAT
 ACTCCAGTCTTGTCAATTGCCAGCTGTGTTGGTAGTGCTGNGTTGAATACGGAATAATG
 AGTTAAGAACTATTAAACAAGCCAAAACCTCCACAGTCAATATTAGTAATTTCTTGCTTG
 GTTGAAACTTGTTTATTATGTACCCCTTCGGGCGCGCTCTAGAAGTANTGGGATCCCCCGG
 GGCTGCAAGGAAATTTGATATCAAGGCTTTATCGGATACCCGTTGCAACCTCGAGGTGG
 GNGGCCCCGGGTACCCAAGCTTTTTGTTCCCTTTAAGTGGAGGGGGTTTAAATCTGGCG
 CCGCCTTGGGCCGTTAATTCATGGGTTCAAGCCTGGCTTTCCTGGTGTGGAAATTTGG
 TTANTTNCGGCTTCAACAAATTTNCCAACAACCAACATAACCGAAGCCCC

Sequence 546

CNGCCGGCCGAGGNACCAAAATTTGTGGGAGGGNANTNGAAACCGGCAGANTTTAANAC
 CNNATGCCNATAAANGGGGGGNCAGGGGANGAAGACGGGGGGCCCGGGNGAACAAAAC
 ACACGGNCTCTANGGAAAANGNGGAGAGAACTGAGAGCGAGGTGNGGCAAGAAGCAGGCT
 CGGAGCCGGAGGAGGGNGGCTANCGGCNNTAATCTCAGGGAGAGATGGCGCNGTGCCGNC
 AATGATGCAAGCNGGNAAGGGACCNGGCGGGGAGGGAAAGGGACGAGGGAAG

Sequence 547

Table 1

CTTCCGTGTGGCTTGTGGCTCAATCATGATGTTGATANGAGAAGGTTTAGTTGTGTCTGC
TAGGCTCTGCCCTCAGGGATTTTGGAGTTCTTCTGGTGTGTGTACCT

Sequence 554

CCGCGGTGGCGGCCCCGAGGTACCCCGTTCTGCCTGAGCATTTTTCTAAAGGGAAGAAT
CAATAGTTTCTGACTGTTTAAACAGCTGAAAGCTCCAAGTGGAGGCAGAGATGGGATGG
CTTTTACACACAGTGCCTGCAAGTTTAGCCACCTCAAAGGCCTTGTCTTAAAGCAACAG
TGCTGTTTGCATTATGAAATGTCTCTGGAGTTCCCTTTGGAAAGGCTGCTGGTGGGCCA
CATGGTCACGATACTTTCAAGTCACACCCCTACTTTGTGACCTTATCCTCAGAGTAAAGGC
TTTAGAGGAAAAGGACCCACAGTCTCACCCATTACCTGGCTGTCAGCATCTCCATATG
CTCCTGGCTGAGTTTATTGAGCATCAGCTGGGGATGTGAGCAGAAACCTGAATCCTTGA
GACAGGTGGTTTTCAAAAAGGAAGCCATAACAATGAGTGGCTTAGTACCTGCCCC

Sequence 555

CGAGGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGAAGAGAAAAGATATTTAACCATT
TCTCAGGCTAATCTNTTAAAGCGCTCAAAGTGTTTTTCAAAAGTGCAAGGGGAGGGATTGT
TCTCAGCCCAACATTTACCCAGTTNTTTTCTTANACCACNCAAAAACACTCTCNAATT
TACGGTGCCTTTANACCTTACTTT

Sequence 556

GGCAGGTACACAGCGGCAGTCCGCGCCACACGTCCATGACTGGTGTCTTAGATTTTAGG
TGTGATGAATACGGCCCACTGGGAAGTGAAGCCGGCTCTCTGCGAGCGGGAAACCGCC
TTTGTCTTGGCCTTTCCGGAGTCTTTCCAGCCTTACCGCCAGCCATTTTGAATTCGCT
GAAGCTTAAAGCAAGCAAGGCAGAGAAAANGGNTAATCGGACCCACGGNNGGNATCCAC
CAACNTANTNTTTTTTGAACCGGGAANAAAAAAGGGGGNTTTTTNCCCCCNTTNC
CGGNNNCCTTTTTAAAAANCCCCCNGGCCNTTTTTAAAAANAGGGGGGCCCCCCCCG
NGGGGGGGGGNNNTNTTTTTNAAANNTTTTTTTTCCCCCCCCCCCCCCCCNGGGGGGGG
GGGGGGGGCCCCCNNNCNAATTTTTTTTTTTTTTTTTTTTNNAAANAAAAANANCCCCC
CCCCCCNAAAAA

Sequence 557

CCGCGGTGGCGGCCGCCCGGGCAGGTACATGGGCTGGAAGTGGGGATGTCCATGGCCCAA
GAGACCCCTCCAGCTTCCAGCCCTGGCAACAGCGGGAGAGCAAACCCAGCACCAGGGAC
TTGGCGTGAGCCAGGGCCGGGAGGCCCAATCAGGCTCTGGGGTATCAGANCAACCAAN
TTGACGTAGTGTGAAAAATAGTATTCTTTGATAAAAAATACTGTCCCTTGGTCTCTC
TAAGTTTGAAACACCTGGGGAGCTTATTTTTTAGCAAAGCCAATTTCCCATACCCACC
CAAAANTTTTTNCAATTCAGTTTTAGGNTAAACAGGNANTTTTTAAACCGTAAAAAAT
TAACTTTAAATTTTGGAAAGGNCCTTTGNANTTTAAAAAACCCNTTGGGCCCNNT
TAAAAAATNANGGGGNNCTNCCCCCGGGGCTCTGGGNGGNGAATNTTTTTNTTTAA
NAGTTTTNTTANTAACCCCCCNCCCCCTTTTNGGGGGGGGGGGCCCC

Sequence 558

CTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTTTTTTTTGAGAC
AGAGTCTCACCTGTCAACCCAGGCTGGATGGAGTGCAGTGGTGTGATCTCGGCTCACTGC
AAGCTCCGCCTCCTGGGTTCACTTTTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGACT
ACAGGCGCCCCGCCACACGCCAGCTAATTTTTTTGTAGTTTTAGTAGAGTCGGGGTTTC
ACCGTGTTAACCAGGATGGTCTCGATCTCCTGCCCTTGATCCGCCCGCCTCGGCCTCC
CAAAGTGCTGGGATTACAGGCGTGAGCTACCACGCCCGGCCGAGGTACTGTTCTGTGG
CCGAGTGGAGACTGGTGTCTCAAACCCGGTATGGTGGTCACCTTTGCTCCAGTCAACGT
TACACGGAAAGTAAATCTGTGAAATGCACCATGA

Sequence 559

CTATAGGGCGAATTGGANCTCCCCGCGGNGGCGGCCGAGGTACAAGTTGGGGTCATAAT
ATCGAGTCTCTTGATATNATCACAATTACTGTCCCCCTGCACTTCTGCTGCAATGACT
GCTGGTATTGNGTATGCTCAGAGAGGACTGAAAAAAGCGTATTTTNTGTATCAGTCCT
NNAAGAATAAATTTTNGGNCAGNTCAATCTTGNNTGNTTNGACAAGACTGGAACCTA
ACTGAAGATGGTATTACATCTTTGGGGANNCAACGAGNGGAAAANGCNCCTGATTCTTT
NACCANAAGAAAATGTGTNCCATGCTGNNNNTGGTNAAACCCAGCCNGTTGCTAGCANG
GCTACTCCCCATTCACTTACAAAA

Sequence 560

NCTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACCTGAAA
CTGCCGCCACATGCACTCCTCCACCGCTGAGAGTTGAATAGCTTTTCTCTGCAATGGGA

Table 1

GTTGGGAGTGATGCGTTTGATTCTGCCACAGGGCCTGTGCCAAGGCAATCAGATCTTTA
TGAGAGCAGTATTTTCTGTGTTTTCTTTTAATTTACCTTCAGTCAACTTTACCAAGAAG
TCCTGGATTCCAAGATCCGCGTCTGAAAGTGCAGTACCT

Sequence 561

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGAACCTTGCTACTTTTT
TTTTTTTTTTGAGACAGAGTTTTGCTCTCATTGCCAGGCTGGAGTGCGGTGGTGCTAT
TTCAGCTCACCACAACCTCTGCCTCCTGGGTCAAGTGATTCTCCTGCCTTAGCCTCCCG
AATAGCTGGAATTACAGGCACGCACCACCATGCCTGACTAATTTTGATTTTTAGTAGAC
ATGGGGTTTTCTCCATGTTGGTCAGGCTGGTCTCAAACCTCCACCTTCAGGTGATCCGCCC
ACCTCGGCCTCCTGAGGTGCTGAGATTACAGGCGTGAGCCACTGTGCCAGCTTGCTAATT
TTCACAGAAGTTGATGGCAATTTCTCACATGTAAACAGTGCCAGTGACAGAACCTTTAT
ATATTTTTTGAAGCCAGTACCTGCCCCG

Sequence 562

CCGCGGTGGCGGCCGCCCCGGGCAGGTACACAAGTCAGTCCAACAGTTAGTGTTAATTACT
AATAATATATGAAAACCTGCCAACACAATTGCTGCTACATCACCATAATAATTATTAAC
CACTGTCCGAAAAACACACATAAATTCAGGTAAGACTAAAAGCTGTCTCACAAAAAGAAA
AAAGAAATCCAATGGATCCACTAATGCTATCAAAAGGGACATGCAGGAATGTAAACATGAC
ATTTTGTAGAAATGTGTGTTCTAAAAAGAAAAAATACACTAAATGCCAGTGGACTA
TAATTCATTCAAAACATCTTTAGTGTTCTTCCCAAAGATCTTGATCTGCTCAGTAATTG
CTTCACAAGATCTATCACAGCCATCTTTGGAGCGTATGGTTAGGCTGGTCCCTCTGTGG
TGGTAGGGGCGAGTCTTTTGAAGCTTTAAGTATCTGGTGGTACCTCGGCCGCTCTAGAAC
TAGGTGGATCCC

Sequence 563

TTNCAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATCGGAAATTATCTACA
ATGAAGAAAAATTTNTTGGNAACTTATCCAACAGCCTGGGCAAGCTACCTCTCGCATGGG
AAATTGATAAATCTGAATTTGATGGGGTGACCACAAATTCGAAACACAAATCAGGCAATG
CAAAGAAACAAGTTTCCAAGAGAAAACTTCAGATAAAAAGGGAAGATATCAGAAGGAAT
GTCCTCAGCATTCTCCTCTTGAAGATATTAACAGCGGAAAGTATTAGACCTCAGACGAT
GGTACCTGCCCCG

Sequence 564

CAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTGGNCCAGTAATTTATNGATTAAATCATNGTAATCNCCAATANAGATTN
CAATAGAGANCNCCAACATGATTNCATGCNTTNAGNGGANAAATNTTNCNGGTTAAG

Sequence 565

AGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCCGGGCAGGTACTGGGGATACAGGAG
AGAANCNANCGNNTTTGTCTTTGATCNNAANGAATCCGCATNGTANAAAGTGGAANATGN
NATGNGATGNACACATTAATTATNATCATNCCCTTNNNCTACCTAAAAATACTCGCAGTGG
CTCNACCTTACGCATATAAAAACTNCGCATTCCAGCCCACCGCCTTCA

Sequence 566

NCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACAATCTCATT
TCATAAAAAACAAAAGAAAATCATTATGGACATGTGTGTGTAATAATGCTTTTTGGAAGGA
CTAGAACTAGATCAACCAGCTAAACAGAAAGTTCCTTCTGTAGCATGGCAGCGGGTTTCC
ATTTTTTATTAGTTTCCTAGTTTTTAAATATAAAAAGAATGTTTTACAAAGAAAATAG
TTGTTTATTATGCCTACAAAAATTAATTTATATTTATTGTGTATATATAAACCTT
ACAAACACTTAAAGTTTATACATATACACTAGATATGGCCTGTGAATTGTACCTCGGC
CGCTCTAGAACTAGT

Sequence 567

TACTACAGGGCGAATTGGAGCTCNCCGCGNGGCGGCCGAGGTACTCCAATGCGTGGCTC
TCCTGTGTGATTCTTCTCCACATGGTTGTGAGTCTTGACAAATCGCAGCCCCCTGCTTT
TTCCCTTCCCTGGGAGGCTAGAACANAGAAGCCCTTAC

Sequence 568

GAATTNGAGCTCACC GCGGGGGCGGCCGCCCGGCGCAGGTACATTTTTAATCTGTTATAGT
TNTTTCAGTATTAATGTTGAGTAAAAANAAAAANNNNGGCTTGTA
CCTCN

Sequence 569

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGGACCTCATCCGCCTCCT

Table 1

GCTGAAGCACGGGGCCAAACGCAGGTGCCAGGAACGCAGACCAAGCCGTCCCCTCCACCT
GGCCTGCCAGCAGGGCCACTTTACAGGTGGTGAAGTGTCTGTTAGATTGCAATGCAAAACC
CAATAAGAAGGACCTCAGTGGAACACGCCCCCTATTTACGCCTGCTCCGGTGGCCATCA
CGAGCTTGTGGCACTGCTGCTACAGCACGGGGCCTCCATTAACGCTTCTAACAATAAGGG
CAACACAGCGCTGCACGAGGCTGTGATTGAAAAGCACGTCTTCGTGGTAGAGCTGCTTCT
GCTCCACGGGAGCGGTGAGTTCAGGTGCTGAACAAGCGGCAGCGCACGGCTGTAGGACTG
TGCTGAACAGAATTCAAAAATAATGGAATTGCTTCAAGGNGGTACCTCGCCCCGAGGGCTC
CTTCCATTATGACTCCATTCAAATTTACGGGNTATTAAGCAGGGGCTTCAGTGCCCCGGG
GTCCCT

Sequence 570

CCGCGGTGGCGGCCGAGGTACTAAAAACACAAAAGCACTTATCAGACACCCTATGGCATT
TGTTGCTGAAATGTCTACCGGCTGGAGATTAGCCTTGAGCCGAAGCAGCCTCAGAGCCAA
CACTGGCTTCCCTCCTGTAAATCATCTCCAGCAGAGGACTCTGACTCAGCCGGAGAATTTT
CTTCTTCTAGTTCAGCATATTCATCAGAGGTTTCGTTCTTTGTTGTATCTTTATCATTAT
CGATGGTGACAGCTTCATCCAGGGCAGCATTGTAACTTGGGGGTTGTTTCAGGGGTTT
ACTTCCGTGGGTTTCCCTCGCCGCTGCATCTGTGACCTCTGGCCCCGGTTTCAGCACTGA
CTGCTTGTGGGTCTCCGGAGCAGCCTTCCACGTGACCTGGGACAGGCAGATGCCTCTTTT
ATGACCACAACCTTGGTAGGTACCTGCCCCGGCGGCCGCTCTAAACTAGGGGGGGATCC
CCCCG

Sequence 571

GTATACGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGAAAAGTT
TTATTCCTTTTGAGGACAAACAATTAACCACATCCAAGGTCTTAACCTACAGACAGAAA
CCAAAGTAGCCATTTAAAGCGTTAGATATCGGATACAAGACATACACTGGGGAGAATGCT
TCACCATCTGAAGCTCACACCACAATGGCCAGTGGACAGCTGTGCACTCTGCTTGTGCT
TAAGTGCTGGGTGTGGCTGAGGGGAAGGCGTGTCTGCAGAACAGAAGAACAGCTGTGTT
TCACAAGTACCTGCCCC

Sequence 572

CCGCGGTGGCGGCCGAGGTACCTCCTAAACAACACAAACTCAAAATGGCTCTAAAAACCT
GCAGTGCCCAATCAGGCTGTGCATAGCAATTGCAACCCGTCCAGCCAATCTGTGATGGATG
TAAAAGGTCTGTAGCTCCAAGTCCACATGAAGTGAGTGTCTTCAATGTGTTTAGAATAGT
GAAGTAATACTAAGGTCACTTCTGAATAATATTTTTGTCTTTTTTTTGTGTTGATGAACA
ATCCATTGGTCACTTAGACCCCTATGTAAAAATAAAGAATCCTCAAGGCATGAAAACAC
CAGTAATCTGTAATCTGCAGGACTCTCCCTGTCTGGGAAAAATTTGCCACAATTTGC
CTAAGCAAATTTCTTCTTGTCTCAAGGCTAAGAAAAAAATTCAGGATTGTAAGGAAG
TGGAANTTTTTTCTCTCTCTTTTTTTTTTTTTTTTTT

Sequence 573

ATACGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACG
CATTTAAATAAACCATATAATTTTACCAGTAAGAAAGCCGATAGTTAAGTTCAATTCAA
ATTGGAGTTTATAAGTTAGTAATTTAAATCCTTAGACAAAGTTACAGAAAGTGATCTTC
TTATTTTCCATCTTCATACAATGTTAATTTTTTTTTTGGTGTGTTATACCTTTTAAAAAT
AAAAACAGCCAAATACTTAAGCAATATGTACCTCGGCCGAGGTACGCCAAGGGCGCCCTG
GAGACGGAGGATCCTGCGTTAATC

Sequence 574

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGTCTTATCG
CTCAACAACAGAGCTCCCATTAATTGGGAACAGTTCTAACACTCCCCCACTTCTCTCC
AACGCCTAAAGCTTCAGAATGGTTATGTGGCGCAGACCAAAATTGCACGCCTGACCACT
GAGGGCAGAGAGCTGCTGTGAATAGGCCAGTCTTCATCGTTAGGAGCAGAGATCACCAG
CAACCTCCTCCTCCACCGGAACCTGGATAGGAAGTTCTCCAGGGACTGCTTTTTGTCTC
TTTGCAAACAATGCCCTCCTTCTTCTGCTTCTCCATATCTTTGATTGGGACTGGAAAGT
ATCGATCAGATCAAACACAGACTTCATTGTTATTGGTACCTCGGCCGCTCTAGAACTAGT
G

Sequence 575

CTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACACAAGGGAGAGGCTCCT
GGGCAGTGACGGTGGAAAGCTCCACTACCTCTGGGATTAGGGGCACTGTTTCCAGAGTCTG
TAAGGTCGTGAGGATGTCACTTATGCTGTGCTCCTGTGGCTGGTTCTCCCTCCAGGGAG
TCTTTCCCCAGCCTCAGCTGGTTCTGCCCAGCCTCAACCCAGGCTTGCTTCAGCACC

Table 1

TCGCTCCAGGCCTGGCTGTGAGAGCCNAAAGCGTAACCTTGCCCGGGGCGGCCGCCCGGG
CAGGTACAGGGGGTGCTGCAGGTGGCAGAGTGAATGTCCCCCATCATGTGGCCCAACTCT
CCTGGCCTGGCCATCTCCCTCCCCAGAAACAGTGTGCATGGGTTATTTTGGAGTGGTANG
NNGAACTTGTTTACTCATTGAAGCAAAATCTGCTTCCTTTTATTTTATAGGAATAGA
NGAAGGAAAGGGTCAGAATGCGTGCCCAACTTCTTTACCCCCCAA

Sequence 576

GGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATGAACTGTAGAGTCA
GAGTTAATGTTGACAAGGTATTTTTGATTTAATGAGAGAAATTCGAGCGAGAAAGATGG
AAGACAGCAAAAGAAAAGAATGGAAAAAGAGAGGAAAAGTTAGCCAAGAGAATCAGAG
AAAGATGCTGCATTTTATAATCAAAGCCCAAACTCCTTTCTTATCTTGACCATACTAATA
AATAATTTATAAGCATTGCCATTGAAGGCTTAATTGACTGAAATTACTTTAACATTTTGG
AAATTGTTGTATATCACTAAAAGCATGAATTGGGAACTGCAATGGAAAGTCAAAATTTACT
TTAAAAAGGAAATTAATATGGCTTCACCAAGAAGCAAAGTTCAACTTATTTTCATAATTGC
CTACATTTATCA

Sequence 577

TTAGGGCGAATTGGAGCTCCCCGCGGGGGNGGGCGAGGTACTCATGACGGANGTTGCCGC
TCGCCCCTTGTGCAGCAGCGTACTTGTCAATTGTCCAGGTACAGGTCTCGAAAAAGCGG
GTGGTGCAATGCTCCATGGGGATGAGGGGAGCAGCAGTGGAGCCAGCTCGGTGTGGGAG
AGGTACCTGCCCGGGCGGCCCGAGGTACCAGAAAGATAACGGAATGTAAAACTGGAATT
ATGAAATCTGGAGTTATTATTTGGGAAATGGCAGAAAAAAGACAGTAAATACGAAACAT
ACTTGAAAAGAACATGCAAAATTTAGTAAGATGAAAGGGGAAATCTATTAAATGTTTG
AGAACATTTTANAGCACGGGATTTGGNAAATTTCCCATAGGACAGATGGA

Sequence 578

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATAAGAGTGTT
GAAGTTTATTTATTATAGCACCATTTGAGACATTTTGAAATTGGAATTGGTAAAAAATAA
AACAAAAAGCATTTGAATTGTATTTGGTGGAACAGCAAAAAAGGAGAAGTATCATTTTT
CTTTGTCAAATTATACTGTTTCCAAACATTTGGAAATAAATACTGGAATTTTGTGGT
CACTTGCACTGGTTGGCAAGATTAGAACAAGAGGAACACATATGGAGTTAAATTTTTTT
G

Sequence 579

CCGCGGTGGCGGCCGAGGTACAATCTCAGCTCACTGCAACCTCCGCTCCCAGGTTCAAG
TGATTTCTCTGACTCAGCCTCCCGAGTAGCTGGGATTACAGGCATGCACCACCATGCCTG
GCTAATTTTTGTATTTTTGTAGAGACAGGGTTTACCATGTTGCCAGGCTAATCTTGA
GTTCTCTGAGCTCAAGTGATCCAACCACATCTTGGCCTCCCAAGGTGCTGGGATTCCAGGT
GTGAGCCACCGCCCCCAGCCAACAATAATTTTAAAGGAGAAATACCAAATCCAGAATACT
GATTACCTCTGGGGAAGAAAAACAAAGACAATGAGAGAGAGATACACAGGGAATTC
AACTGGTTTGTCTAATATTTTA

Sequence 580

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAACATCTTTGAAGG
GATGGAGCTGCGCGGGGCTCCTCTGGTTGTCTGCTGCCAGGGCAAGATCATGCTGGAAGA
TGGCAACCTGCACGTGACCCAGGGGGCTGGCCGCTTCATACCCTGCAGCCCGTTCTCCGA
CTATGTCTACAAGCGCATTAAAGCACGGAGGAAGATGGCAGACCTGCATGCCGTCCCAAG
GGGCATGTACCTGCCCGGGCGGCCCGGGCAGGTACCAAAAAACAACATGACACACAG
GAAAAAATAAAGTGCAATTTTAAATATAGTGAATGTGATACATGTATAATTCCTCATAAC
AAAATGGTCAAAACCTTTAAAAGATCCACAATAGATATCTGAAATCTTAGCAATGCTGT
ATATATTTTGAGGACTAAATGATGAATTTATATTCAAAATTTGGTCAAAATATATT

Sequence 581

CCGCGGTGGCGGCCCGGCCGAGGTACATCTCCTCGATCATCTCGCGGAGGGCCAGGAA
GTAGGGCCCGTTTTCATTTGGGGCTCGGCGCCAGTACATAGGGAAGCCCTCGGACATCCTC
ACCCCGTGTGTAGCCCCAGCCCAAGGCTCTCCACCATGGTGTGGAAATAGGAACCCAC
GCTGCTTTTGTGGGGTCCAGGAATCCAGTGAGAAGGTCTTCCAAAGCCAGGGACACG
TACCTCGGCCCGCCCGGGCAGGTACTCCAGGACGAAGAAGGAAGATCATGCTTGATACTTA
GATTGGTTTCCAGGGAAGAGGGCGGAGCAGAGCAAAGTCACTGTGAACCTTGGGCCAG
CCCTGGCTGGGCCAGCTCCTGAGAGCGTCTCGTGTTCANACCCTTGCCCACTTTACCC
A

Sequence 582

Table 1

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATCATTCCACTTCAAGA
AATTTTTTTTTCTTTTTTTGGAGACGGAGTCTTGCTCTGTACCAAGGCTGGAGTGCAG
TGGCACGATCTTGGCTTACTGCAACCTCTGCCTCCTGGGTTCAAGCAATTCTCCTGCCTC
AGCCTCCCAAGTAGCTGGGACTACAGGCGCACGCCCCACACCCAGCTAATTTTTGTATT
TCTAGTAGAGACGGGGTTTCACCATGTTGGCCAGGATGGTCTCAATCTTTGACCTCATG
ATCCACCCGCTCGGCGTCCCAAAGCGTTGGGATTACAGGCATGAGCCACCGCACCCGGC
CTCACTTCAAGAATTTTTTACAAGCACAGAACTATATCTCAAGTGTATGATAAACTGGT
ACTATAATACTATATTGGATTATAAATATACAAGCTATTTGAGGGGGGGTGATAGCTTCA
CTACCTTCACCAAGCTTAGGAATATATATAATCTACTTTG

Sequence 583

ACTATAGGGCGAATCGGATCTCCCCGCGGNGGCGGNCGCCCGGGCAGGTACCACTTCTGA
TGATGGAAGCAGTGACCTGGATCCCATAGAACACAGCTCAGAGTCTGATAACAGTGTCTT
TGAAATTCAGATGCTTTGATAGAACAGAGAACATGTTATCTATGCAGAAAAATGAAAA
GATAAAGTATTCTAGGTTTGTGCCACAAACACTAGGGTAAAAGCAAAACAGAAGCCTCT
CATTAGTAACTCACATACAGACCACTTAATGGGTTGTACCT

Sequence 584

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTAAGTGAAGAAGCCAGAC
ACAAAAGGTCTCATACAATTCGATTATATAAAATAGCAAGAATAGATAAAACCATAGAG
ACAGAAAGCAGATTGGTGGTTGCTGGGGGCTGGAGGAAGGAAGGAATGGAGAGTATCTGC
TTAATGGGATGGGGTTTCCCTTTTAGAGGAGAACAATTTTTTTGGAACTTTAAATAAAGGTG
GTGGTTATGCAACATTGTTAACAATACTAAGTGGCACTGAACCTCTCACTTTAAATAGT
TAATTTTATGTTATGTGAAGTTACCTCAATAAAAAAATTCTTAAAAAAAACCTCANTG
ATATCCAACCATTAAAAAATNTAAGTTACATAGCTCGTATATAATCAACTTACTTATTAC
TGCATATGAGGGGCCCCAGATATGTAAGACAGAAGTCCCAACC

Sequence 585

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACAACATCCTTTCAA
ATATTCTTTCTTTATTCTCCAATTCACCTTTTCAGGAGAATAGATAACCTCAATCATATTG
ATTCTCAGCCTAATGGTCTCCCTTACATAAATTATAATGACATAAGCATTTTGTATCACT
TTATTGTTACCATCGACCTCCTACAGTTTGGGGGAACCCAATCATTCTTTAAAAACATTAG
AATGACAACCTCCAGTTGATTTGGCATATTGTATAGGTGAGTGGGGAAAGACTTGTCAAT
CCCAGAAAGGGGGCGTGGCACCAGCACCCACCAACCAGAAGAAAAATCTCTTTGGTGC
TAGTGTATAGCTCCCTATCTGTTCCGCTAACCCTAAATGATGTGGTGGAGGAGGATC
CTTTCACAATCTTTGTTCAATTTTTTACAGAGCAATGGGAAGTNNTACCTAACCTTTTAC
NAAATTCATTTTTTGGGT

Sequence 586

NCGGGGGGGGCGGGCCGCGGGGCGGGTCTTNAAAAANTNGAGGAANTTNTTAAATGGNT
CCCANTAGGGCNTTTNAAANCTNCAANCGGCTTTCTTTNTTNAATTNNAANGCTAATNCT
CTNGCAAATCCAATAAAATCGGNCNTTTNNTATNCATTCCNGCTTTATATTTTATATTT
NAAANGANGCCNCCNGTAAATNCTATTTTNTTTGGCAAATACCAAAAGGNGCAAAAAAC
CTTTAAAAATTNCGTAAANCATAANGTAGTTCTNAGGGGGAAANGTTATCATTCCCAAN
GTCCTNGNGTNGTTCCTTCCTTAAT

Sequence 587

CCGGGCAGGTACTACTTTGAGGGCATTAAACAGACCTTTGGCTATGGCAGCACGCTTATT
TTAGGGCCAGCGGCAGGGGACTCCAGCCTGCTGGACACTTCAGTCCAGCTCTCTCCTGAC
TGGGGCTTGCAGCTCACAGGATTGCATCGTCCCAGCTGCTAACTTGGGGCCGGGGCCCCCT
CCCTTCCACATATACCTTGGGTTTGTGCATGTTTTCTGCTGGGTGGGTTTCAAGGGGCAGG
GGACTCCAGCCTGCTGGACACTTCANTCCAGCTCTCTCCTGACTGGGGCTTGCAGCTCAC
AGGATTGCATCGTCCANCTGCTAACTTGGGGCCGGGGCC

Sequence 588

CCGGGCAGGTACGTAGTAAGAGAAACATTGCCACAAAATCCTCTTTTAAAGCTCTTTCA
GGACACTAAATTAAGTCATTTCATTTCTGAGATTTTAAAGGCCAACAATGTCTCTATTTTC
AGACTATGTCACAAATGACATAAATGCCAAAATTATAGATCTTAAGAAGACAACACATAA
AATACAGACTTAGACAAAACAAATGACTAAAGCTGCATAGTTCTGCTAGACTTTATTCAA
AACTGGCTCTATTCTTAATTTTGGAGAGACCTAAAATTCTAGTGTTCAAATGTAAATAC
CCATCATATACTGAAAAGTCATCTTCAAATTTGT

Sequence 589

Table 1

AGGTACCACTGAATCCAAGGCTCTCTTGGGTAGCCTATGTGCCTCTTGGATGGTATGTGA
ACAAAGGTAGGGATGAAACTGCAGATGTCTGAAAAGAGCTTAAGCATCCTGACAGCTTGCA
TTTTTTTTTAATTTTTTTTCTCACCGTATCCACATACCTATGGCTGGGGAAGGTAA
TGTTACCTCTGCAAACAGATGCTCTGGTAAGAGAAGAAAGACACAGGGAAGGCAGAGAGA
GCAAGACAGAGGGCTCAATCACAAAGCTGGGACAAGGAGAGCAGCTGTTTTTCACACATT
CCTGCTCCTCTCTCAGCTGGGCTCATGTTCACTCCGTTTCATTCCAATCATCAG

Sequence 590

CCGGGCAGGTACAGGACAGCCAGCGTCATCATTGCTTTGACTGATGGAGAACTCCATGAA
GATCTCTTTTTCTATTAGAGAGGGAGGCTAATAGGTCTCGAGATCTTGGTGCAATTGTT
TACTGTGTTGGTGTGAAAGATTTCAATGAGACACAGCTGGCCCGGATTGCGGACAGTAAG
GATCATGTGTTTCCCGTGAAAGTACGGCTTTTCAGGCTCTGCAAGGCATCATCCACTCAATT
TTGAAGAAGTCTGCATCGAAATCTAGCAGCTGAACCATCCACCATATGTGCAGGAGAG
TCATTTCAAGTTGTCGTGAGAGGAAACGGCTTCCGACATGCCCGCAACGTGGACA

Sequence 591

CCGGGCAGGTACACGGAATCTGGACAGTGCTCCACAGATTGATACATTAGCCTTTGCTT
TTTCTCTTTCCGGATAACCTTGTAACATATTGAAACCTTTTAAGGATGCCAAGAATGCAT
TATCCACAAAAAACAGCAGACCAACATATAGAGTGTTTAAATAGCATTTCTGGGCAA
ATTCAAACCTCTTGTTGTTCTAGGACTCACATCTGTTTCAGTTTTCTCAGTTGTATATT
GACCAGTGTTCTTTATTGCAAAAAACATATACCCGATTAGCAGTGTCAGCGTATTTTTTC
TTCTCATCCTGGAGCGTATTCAAGATCTTCCAATACAAGAAAA

Sequence 592

CCGGGCAGGTACGGTGTGNTGTGCGATGAGCACGATGCAATTCTTCACCAGGGTCTTGGTA
CCAGTGCCCTTTTCAGACAGANTTTGATTGCTCTAGACTTTTTTTTTTTTTTAATAGG
GAAAAAANTTGATAATTTTTCTTTTTTCTACATGCACCTAAGACTAAAAACACAGGTTT
GGATTAATTTTTATTNTGCTTNTTTTTTCCGCNTTTTCTNTNNCGCNCGAGNCTGAA
NGGNAAGAATGTTCCAGGGCAGGGGNAACCCACA

Sequence 593

CCGCGGTGGCGGNCNCCCGGNNTTNNAANNNGGGGNNNTNTACATAGAGGTGAGGGT
CATGCCCGTGTTTCAGCTCATNCAGTNCAGGACTTCGCCCTGCCCCACCCATNATGGGT
NAGGCCGGGAAGGGGGCCATTTTGAAGCCAAG

Sequence 594

AGGTACTCTGAAGGTAGGATGTGCAGCTTTTTCTTAGGCAGGATAGATGTAACATAGATG
ACTGCATAAAAAAGAGGGCAGAAAGGGCAGGAAGCCCATTTTTTTTTTAACACTTCTNCA
TTGTGTCTCTGCCTCACCCATAATGGCTGGTTTATTCAATTATTCATATATTCCCGTTTG
TGTTTNCANNNAGGTCTACACAGCACCAGCCTACAAAGGCAAGGTCCAATCCGTGTAA
AAAT

Sequence 595

CCGGGCAGGTACCGTCGCCCCGGCTCTCCGCCGCTCTCCNCGGGTTTCGGGGCACTTGNG
GTCCCCACAGTCTNGGTCCTGCTTCACCTTTCCCTTGACCTGAGTAGTCGCCATGGCAC
AGGTTCTCAGAGGCACTGTGACTGACTTCCCTGGATTTGATGAGCGGGCTGATGCAGAAA
CTCTTCGGAAGGCTATGAAAGGCTTTGGGCACAGATGAGGAGAGCATCCTTGACTTTTGT
TGACATCCCGAAGTAATTGCTTCAAGCNCCCAGGAAAACTTTTTGCAAGCTTTTTAAAG
AACTNTTGTTTGGCAGGGGATCNTTNTGGGNTGACCTTGAATCAAGAAANTAACCTGGG
AAAAATTTG

Sequence 596

GGAGATTATGTCTACTTTGAGAATTCCTCCAGCAACCCATACCTAATAAGAAGGATAGAA
GAACCAACAAGACTGCAAGTGGCAACCGTGGAAGCAAAAGTAGTATGCTTTTATAGACG
ACGTGATATTTCCAACACACTTATAATGCTCGCANATAAGCATACTAAAGAAATTGAGGA
AGAATCTGAAACAACAGTTGAGGCTGACTTGACCGATAAGCAGAAACATCAGTTGAAACA
TAGGGAACCTCTTTTGTACGCCAGTATGAATCTCTGCCCGCAACACATATCAAGGGGAA
A

Sequence 597

CCGGGCAGGTACTCATGGAAAAGGAGTTCCTGGATTTTTGGAAAATCAAAAAGACCTC
TGGCTGTGGACAAAATAATGAAGGACCTGGACCAAGTGTAGAGATGGCAAAGTGGGCTTCC
AGAGCTTCTTTTCCCTAATTGCGGGCCTCACCATTGCATGCAATGACTATTTTGTAGTAC
ACCTAGAATCTTTGTGAATAATGTGAGGCCAGTTCCTCCATAAGGAAGGCTGGTTATGGA

Table 1

TATTCATAAGGTTATTTCAAAGTTAATAAAGACAAAAGTGGCAACTGTAGAAAGTGTTGCC
TCCAATCTTGGTCCGTATTTCAAAGC
Sequence 598
NCGGNGGCGGCCGAGGNNNNNNNNNNTGTTGAGGGGGAGGAAAAACCCGCCACCCNNGC
GGGAGNGCAGNAGCAGCACCNCANTTTACNGCAACCGGCAGCNCNCNCANANAGANN
CNCNGCCNCAGCCNCCCAAGNAGCNGGGANNACAGGCANGCGCCANCACACCCANTTAA
NNTTTNTNTTCCAGGGGNGAGGGGGCCCCACCAAGAAGGCCAGAATGNANNTGNCCCC
NGACCGCAAGGGANACACCCACCNCAGCCNCCCAAAGGGCNGGGANNACAGGNGNGAGCC
ACCGNGC
Sequence 599
CCGGGCAGGTACAAAGCTATAAAGGAACGTTTTAGAGAAAGCACTGAAGACACACATTT
TGCTGACCTAAAGATTTTAAATGAATTAGAATAATTTACATCATATAAAGAGGTATTT
AGTCTTTAAGTGGAGAAAGT
Sequence 600
NGNGGCGGCCGAGGNACNNCANAANTNNNTTCGGGGGNCANAAAAACCCCCACNCCCC
NNNCNAGGACACCNCNGGGAAGTTTTNAAAAGCCNCAGGGGGGGGGACCCAANAAAGNG
AAGNGACCGNCNCNNCCAAGGGCCNCCANANGNCCGANGNGANGGCCAGCNGCNCNTNNA
GANGANTNTNTNNGCGGGGNAACGNCCCCNANAAAAGAGGGAACNGANCNGNCNC
CCGCCCCGGCGGAAGCACGAGGAGNNCNGNCCCCACGNCCACGGNCCCGCNACNGNGN
CCAACAANGNNGNNNNANCCGANNNCAGCANCAGGGANCGCAGNCCAACGNGGAGCACC
NGA
Sequence 601
CCGGGCAGGTACTGGTCTACAGGGACAAGCAGTCTTTAAAACGAAACTCACCTTCAGACC
TCACTCTACGGACAGTGCCACACATAGAAAGATGACTCTGTCACTTGACATAGGTGTT
AAAGACACATGAAGATTAGAAATCTTGCCAATGGCTGGTCTGACCTGAATGCCAACGCA
CAGAAATGATTAAGAAAGAAAGAACGTTTGAGGGCTTCCATACGTAGGGAATCTCAGC
AGCGCCGAATGAGAGAGAAACAGCACCAGCGGGGCTGAGCGCCAGTTACCTGGAACCTG
ATCGATACGATGAGGAGGAGGAAGGCGAGGAGTCCATCAGCTTGGCTGCCATTAATAA
Sequence 602
AACNCCACCGCGGAGGCGGCCGAGGTACTGCATCAGTCTGTGAGGAGGAGGGAAAAACCTT
GGGATTGNAAGACTATTAAGATCCTAGNAAGTCNNTGGTAGNTNACNGGGATGNGACCAT
NGAAGANCCCCCGNNGNCATTAATCACAAATAACAANNNGAGAAGNAGGCTATAAA
ACAAATTNAGGNTGCTNTTTTCNANNGGAAAAAAACCAAAAAAAGAGANGN
GAATCCCCCAGNNANGGGGAAAGGNAAGCAACACCAANAAAAGCCCA
Sequence 603
AGGTACCACGCACAGGAGCCGTCACCTTCTCTTGATGCAGGCGAAGAAGCTTGGCCTGGTGC
CCGTTGATGTTCTTNTNTGTGACCCANTCCATCCAGAGGCACTCGTCCGGGGAGGAGATG
TAGCACCGGGATCATGGGGCAGCTCGTGATCTTGCACTCGCAGCCCATNTGGTACCTGCC
CGGGCGGCCGACCGGGCAGGTACTTACTTTCCCATAGGAAGACAGACCATAGGCAAACCT
CTGTTTTGGGATCTNACTCCATCACCCTTGTTTCAATATTTTTTTCTCTCTTGAACA
AACTGAGATAATTAN
Sequence 604
CCGGGCAGGTACAGGCACAGCATATATTTGAGAAAACATCTTACAAATTTCAATTTACTAT
AGGTTTCTCAATAATCTTTACATTTAATCAATGAGAAAAGTGATTCAGTCTCTTGAATTT
TAAGTTAAAAAATTAAGAGTATTTCCAGGACTCTTAAAGCTCTCTCCCAAAGTATAA
AATATTATGTACTGTGGGGTCAGATTACGATACCTTGAGGGAACGAAAGACCTTCTGTTG
GGGCGTGACCCGTTTGATGTTTGGATGATCTTCAAGTGTTAGCAGCCCCGCCTTCTGTTT
TTCTTTTATCTGAA
Sequence 605
AGGTACAGACATTTTCAAAGTTGCCAGTGTTACTTTAATTGGACTGCCTTCGTAATTCAT
TGCCCTCTGCTTCAACAATGTGCAACTCATCTTTGCACCAGCCCCCTAAACTGACCGTTCT
TAAAGATAACTGGTGCTCATTTTCATCATTATCCACCTTAAAGTGATAATCTTTGTCGGC
CTTTAGTTTCAACCGAAAAAGATAGTTCTGGGGCCTCAGGGGGCTCATGTCCATGTCCAT
CACAGAATTCTTTAATATAAATACGAACGGATGGGGATAAATAATATTTAAACTTAGAT
TATTCATGCTTGCAAAAAA
Sequence 606

Table 1

CCGGGCAGGTACATATGATCCTTAGCCACCAGGGCACAAGCTTACCAGTAGACAATACAG
ACAGAGCTTTTGTGAGCTGTAACCTGAGCTATGGAATAGCTTCTTTGATGTACCTCGGCC
GCCCCGGCAGGTACCTTAACATTCACATGGAAGTAGTAAAAATAAGATTCTGGGTGCAGT
TCTCCAATGACAGGAAAAAAACAAAGAGAATTTGAAGAATACCGTCAGAGACAAATACA
TTACAACCAAAATTGACTTCAAGGCACCTTTGAAGGAGATCAAATTTATAACAAAATAAT
TTAGTGAAAGTGAAAGCTT

Sequence 607
CCGGGCAGGTACCTGGACCTGCTGTCCCAGCCCTGCCGCGCTGTTTACATCTTTGCCAAG
AAGAACGACATTCCCTTCGAGCTGCGCATCGTGGATCTGATTAAAGGTCAGCACTTAAGC
GATGCCCTTTGCCCAGGTGAACCCCTCAAGAAGGTGCCAGCCTTGAAGGACGGGGACTTC
ACCTTGACGGAGAGTGTGGCCATCCTGCTCTACCTGACGCGCAAATATAAGGTCCCTGAC
TACTGGTGCGGCGCACCCCTTCAGGGTCTTGAGATTGAGCTGCAGTCACAGCTGAGCATGA
AAGCTGCCCTTGAAGACACACTGGC

Sequence 608
CCACCGCGGTGGCGGCCGAGGTACCCAGGATGNTTTCTGGCAGGAGGGAGCNTGTGTTCC
TGTGACCTGTGACCCACCTCCACCAAAATTNCATGGGCTCTACCAGTGACCTGCCCGGA
CTTCCTCTCCTACCTACAGTCCCTGCTCCTATTCCCACCTCAGCAACTGAAGCCGCCCC
AGAGCTCTGCCCTTGAGGATATAAACACATTTAAATTACTGTCATATGCTTCCTATTGCAT
TGAGCATGGTGATCTGGAGCTAGCAGCAAAGTTTGTCAATCAGCTGAAGGGGGAATCCAG
ACGAGTGGCAGGACTGGCTGAAGGAAGCCCGAATGACCCTAGAAACGAAACAGATAG

Sequence 609
AGGTATTAACACATGATGGAAAAGTCATTGTGACGCCAATGAATTTTATTGAGTATAAAC
TCATCTACTTCAAATTTATTTTATAAGACAACCTAAGATACTCAAGATAATTTTAAATG
GTTAGCTCTTAAGTTGAATTTGGTCTACATAATGCGTGGGAAGAAAACCAGATTTTATGCC
TTCTTGCCAAATCCAGACCTCTGGTTGATTTTTCTTTGACAGAAGATGCAAGTTATTTTC
CAATTTCACAATTAAATGTATTTAACATGAACATTATTTTGCTTTAAAACTATAAACAT
TGTAGGAGAATTATAGCCAGTCTTCAGTTATAACCACT

Sequence 610
AGGTACTTCGAGGTCTTCGGCGAGATCGAGGAGGCGGTGGTCATCACCGACCGGCAGACG
GGCAAGTCCCGGGGCTATGGATTGTACCATGGCTGACCGGGCTGCTGCCGAAAGGGCC
TGCAAGGATCCCAATCCCATCATTGATGGCAGAAAGGCCAACGTGAACCTGGCATACTTA
GGAGCAAACCAAGGATCATGCAACCAGGTTTTGCCCTTTGGTGTTCACAACTTCATTCA
GCCCTTATACAAAGACCTTTCGG

Sequence 611
AGGTTTTGCGAGCTCGTGCCATCATTTTACAGAGCTGGTGAGCATTTCAGAACTAGCTCAACC
ACTAGAAAGTGGCACCCATTTTCTCTCTTCTACTTTGTCTTCAGCAGTTAGCTAAATT
ACAAGATCGAGAATGGTTAACAGAACTTTTCAACAAAGCAAGGTCAATATGCAGAAAAT
GCTCCAGGTAAGAGAATGCTGACTTGTTTGTGTTTTTTAATATTATATCTAGAGA
TTTCAGGTACCTGCCCCG

Sequence 612
CCGGGCAGGTACANATGNGNNGTGTCTNNCACTTTCATNAGAAAANGCCATATCTATAC
CATATTTTATTCGGAGTCACTGANGATGTAATGATATATCTTTTTCATTATTATAGCAGA
ATATTTTATGGCANGATATTTAGANGNCTTGANCATNCCTATTAATAANTGCCAAACA
CCAAATATGAATTTNTGATGTGCNN

Sequence 613
AGGTACAGAACTTGGTCATAATATCTTGCAATTTTATAGATTTATTAAGATTAGTTTCAA
GTTACATTCGCTATTTCAGTTGTAAACCGAATGGATGGGAGGGGAGAAAATATAAGCTCT
CCACACAGGTATGCTCCTCTCTTTTCTGAGAGAGAAGGCATGGGATTTTCAGCATAAATT
CCATGTTATGTGAGTGCTGTTTGAGTTCTGAAGTTCCATCAATATCTGTTCTGCAAGT
GATCTCTGTAAGACCACCTTACATGCTGGTCTTAGTTATTGTTAAATGCAAGGTTTCT
TCACACCCTCTTTGATAAGAAGTGTTTAGCTGGCAGAGC

Sequence 614
CCGGGCAGGTACCTCTTGAGTGTCCTTGAATTGGTAACCGGTTTGTGTCATTATTTTC
TAAGCGAATATGCCGTAATTGGTTATTGGGAACATCTTTGACAAAGATCCATTTAACTTC
AAATTTGCCCTTCCACTTATCCTGAGACCAGACACCAGCATACGCATTATAGTCCACAAC
AGACTTCATTTACGCCACTCCACAAAAATGTCCACTGCCATTACACTGAAGAGTAAATA

Table 1

GAGTGGGCCTTTCCCATTCAGGGAACGGTAAGCTGCATCCAAACGCTTATTACCATGCTC
AGTACCT
Sequence 615
CCGGGCAGGTACTTTTGATTGTGCACGCTTTTAAATAGAGAGCAGAGTTGCCCACTTGAA
ACTACTCTCTTGCATGGGATATTTCAAGCTGTTTTACTATGGGCAAGGAGCAGGGACCAA
AATGCTGCCAGGGCTTAAAAAGAGCCGTGATCAGATTAAACAGAAGTTGGAGAAGTGAG
GGATGTGGGCCACACACGAGAAGAAATTCAGGAAGTAAGAAGTAAGAGTGACCCTATTAT
GCTTCTCAAGGACAGGATGGTGAACAGCAATCTTGCCAGTGTGGGAAGAATAAGGAAA
TTGATGTGGAAGTGAGGAAGGAGATTGAGGATGCTGCCAGTTTGCCAC
Sequence 616
CCGGGCAGGTACATGTACATTATAAAAAAAAAAAGTTCAACTAGTATGAAAGGGTTATAAA
GTAACAGAAAAAAAAAAAAAAAAAAAAAAAAAAGGANTTAATCACAGTGGAAGCTTGACACGG
TGGGCCACG
Sequence 617
CCGGGCAGGTACAAATGTGAAGAAAGCTTTGTGAAAATTCCTGGCGAGAAGGACTCAGTG
ATCTGCCTTAAGGGCAGTCAATGGTCAGATATTGAAGAGTTCTGCAATCGTAGCTGCGAG
GTGCCAACAAAGGCTAAATCTGCATCCCTCAAACAGCCTTATATCACTCAGAATTATTTT
CCAGTCGGTACCTCGGCCGCCCGGGCAGGTACCCAAGGGATGTTTCCAAGCTTCTTGATC
TTTAATCTTTTAGCAACCTTCTGATACTGGATTTACCTTCTAGGTGTGGTGCCCTCCTT
CTGGAATTTAGATCTCTGGGGCAAACCTGTCAGGAT
Sequence 618
CCGGGCAGGTACCCTGTGGCAAATTAGTCACTGGTAAATGAGAAAGATATCACTGAAAGC
CTCAAGTGCCTGAGAAACAGTTTACTCATCCATGGGATCTCGCCAATTGTGAGGAAACAG
CTCAATGGCCATTTCCAGTTATAAGCAGCTTATTTTTACTGATTGGACCTGGTTACCTAT
CATTTCTAAAAATACTTCTGATACAATTTGTACTTCCAATTTATAATGAATACTTTCTT
AGATTTTAGGTAGGAGGGGAGCAGAGGAATTATGAAGTGGGGTAAACCCATTTTGAATAT
TAGCATTGCCAATATCCTGTATTCTTGNTTTACAT
Sequence 619
GGCGGCCGAGGTACTCAANACATCTTTCAATAAAAAATGGGGNTCGGCTTCTCTGGAGTCA
CGGACAGTTGTTAAGGGCACCCCAAAANAGTTACTCTNCCAGGTTGCCTTTGNGGTGGAT
GGCCGGNGTTTGGGCTTTGGTTTATTAGNGTTCCCTCTAGGCTGCGAAGAATATTCCTC
NCTCCGAGGGTCTTCGNCTGTTTCGTATGGAATGACAGCATTGTCCCTTTATAACCCGTG
GGATGCCTGATCCTNCTCTTTCTTNCGGATGGGCCCCAGCTCATCACTCC
Sequence 620
ACTATAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCCGCCCGGGCAGGTACTGAACAAAG
GCATAGCCCTTGTGCACAGAACAGCCGGCCACACGGCCATACTTAGAGAAGATGGTCTCC
ACATCTGATTTCTTACCAGAGCTGTGTTGAGGTTTCCAATGAAGACTCGAGAGTTGATG
GACTTGGGGTCATTCTTGTGGTTACATTGCTTGCTGCTGAAGCTTCAAGGACATGGTGCCC
ACTTAACAAACATTTCTTGAGTGTCTCTCTGTGCTGGCACTGTGGAGATGCTGGGAAA
CACCGTGCTCACCAAGTCTTCTGCTCTACTTGCTTTTCAAGAAGCCCCCTCTCTGGGAACC
AGTAACAATGATGAGCTTAGCCAGCTGTTTCTCTCT
Sequence 621
TTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTAAACAAANAGTTTGATTTATTGATATTNAAATAT
ATNAAATNTTTCACTGAAANACATGGTTNACCATCCTCCCCACCCCAACAGGGGTACN
TTNTAAACCAAAGCCCNCGGCCTCCACCTNCTGACTNCTTTACCAACTGGGNGAGGAA
AGGGACAATGGTNCCCANGGGAAGGGCATGGNTGGCNCTNNGGNACCTGCCCCGGGCGGC
CGNTTTAAACTAGGGGATCC
Sequence 622
CGACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAGGAGAGCACA
ATTGGAGCGGCCTTCTCACACAGACTGTCTGCCTGGATGACACAACAGTCAAGTTTGAG
ATCTGGGACACAGCTGGACAGGAGCGGTATCACAGCCTGGCCCCATGTACCTGCCCG
Sequence 623
CCGCGGTGGCGGCCGAGGTACATTATATAAGGGATTTTTTTAAGTTGAAAACAACCTTC
TTTTCTTTTGTATGATGGTTTTTAAACACAGTCATTAATAATGTTTATAAATCATAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAANAGGGGGGACCTGCCCGGACCTGCCCN

Sequence 624

Sequence 625

Sequence 626

Sequence 627

Sequence 628

Sequence 629

Sequence 630

Sequence 631

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Table 1

Sequence 632

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTGAGG
ATCGATAAAAGAGGCCAAAGTAAAAGGGACCCAAGAGATGAAGAATAATTACAATATCATG
GAAATCAGGACAGTGGCAGTTGGAATTGTGGCAATCAAAGGGGTGGAAAGTGAATTCTAT
CTTGCAATGAACAAGGAAGGAAAACCTCTATGCAAAGAAAGAAATGCAATGAAGATTGTAGC
TTCAAAGAACTAATTCTGGAAAACCATACAACACATATGCATCAGCTAAATGGACACAC
AACGGAGGGGAAATGTTTGTTCCTTAAATCAAAAAGGGGGATTCTGTAGAGGAAAAAA
AAACGAAGAAAGAACAAAAACAGCCCACTTTCTTCTATGGCAATAACTTAATTGCTTA
TGGGATATAAAGAACCAGTTCACGACAGGGAGATTTTTTAAGTGGACTGNTTCTTTCTT
CTCAAAATTTTCTTTCTTT

Sequence 633

CTACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTCGGGACCGGGGCCGCTG
GGGTCTGGACGGGGGTGCGCATGATCCGCTTTATCCTCATCCAGAACCAGGGCAGGCAAGA
CGCGCCTGGCCAAGTGGTACAATAAATTTTTTGGTCAAAATTTAAAAAAGGGGGGACCTGCCCCG

Sequence 634

GGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCANGGNTTTTTTTTTTTTTTTTTT
TT
TTTTTTTTTTTTTTATTAACCCCNCCNAAAAAAGGGANCCCCCNNGNNNAAN
NNNAATTANAANAAAAANTNAAANCCCCCCCCCANCCCCGGGGGGGGGGCCCCCCCC
CCAAAANNTNNNTTCCCATAGAAANNNNNNAAAAAACCNCCCCCNGGGGGGAAAA
AAAANGGAAAAAACNNNTTNCNNGNGNGAAAAAAGGGNTTANNNCCCCANAAAA
GGNCCNAAAAAANACNACGGGGGGGGNAAAAAATANANAAAAAGCTG
NNGGGGGGNNCCCCCAAAAGGNGGGCCANCCCNNNNCNAAAAATTTGGGG

Sequence 635

CACTACTATAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCTAGTCGGTTAA
TTTACACTTTATTTTTTAAAAAGTTGATTTAAAAAGAAACAACACAAGTTTAGAATCC
ATAAATGTCAGCAATGCTGATGTGCACTGGACTGAAACATCTTGATCATCTTCTGATAG
AAGTAATATTCCATACAAAAAGATTCTTAGATTCCATTTTTTGTTCATTATTGTTGTG
GCTTGCTTTCTTTGAGCAATAAAGGGGTACCTGCCCGGGCGGCCGCTCTAGAACTAnnnn
nn
nn
TCATGGGTATTAGCTGTTTCTGTGTGAAAATTGT

Sequence 636

CTTAGGGCNATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAGCTTTTTTTTTTTTTTT
TT
TTTTNCCAAANNNNAAAAAANCCCCCNCCNTTTTTNANTTTTTNAAAAATCCCG
GNCNTNNNAAAAACAAACGGAAGGNTNNAANTNCCCCCTTTNACNTTCCNANAAAAA
AAAAAANNTTNCNNNNCCCCAAAAAANCCCCCAAAAAAACCCTCCCGGG
GNNAGNCTNAAAAAATGGGGGGCAAAANANNNCCCNAAAAAANAAAAA
AAACNCCCCCANAAAAAANNGGGGNNATAAANNTTTTTACNCCCAAA

Sequence 637

ACTTAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTAAACACAGAT
GGGCACACTCTAGATATAGAACACGTTTCTTGCTGTGTTGTGTGACAAATGGCTAGAAT
TTTAGGAGGCTCTGGGACTGCACACTGTATATGCAATCCATCTCAGACTTTGGGATGGGA
ATCCATTTTCATCATCCAGCATGGCGAACTTGGTTCATTGCCCCAATGTGAGTCCTTCC
TGGGTAAATTAAGGCAGACCGGNTGGGTGCTAAGGATCCCTTGGTGTGGAGAGGCCAT
TTCCGTTGAGCAGCTGGACTGTGAAATCAATACCAAGGGGATGGTGGGGTCTGGGCGTT
GGGGAATTCTTGACAACTTTCTGTCTTCTTAACCATGGGCTGTATCCCCNGGAGGG
TCTTTCCGGCTTGTTGTTCTTGGGCCTTGGGGGGGTG

Sequence 638

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCGCCGCTGGGCCTGCAGGTCTCT
GTCGAGCAGCGGACGCGGTCTCTGTTCCGAGGATGGGGTTTGTAAAGTTGTTAAGAA
TAAGGCCTACTTTAAGAGATACCAAGTGAAATTTAGAAGACGACGAGAGGGTAAACTGA
TTATTATGCTCGGAAACGCTTGGTGATACAAGATAAAATAAATACAACACACCCAAATA
CAGGATGATAGTTCGTGTGACAAACAGAGATATCATTTGTCAGATTGCTTATGCCCGTAT

Table 1

AGAGGGGGATATGATANGTTTGC GCAAGGGTNTGCACACAACTGCCAAATNTGGNGAA
AAGNTTGGCCTAACAANTTTTGCNGAANATTTTGTCCCTGNCCGGNGGGCCNTTTTAAA
AACTAGGGGGGCCCCCGGGGCGNGGNGNAATTTTNAANANAAANTTTTANNNGNCCC
CCCNCCCCCTNGGGG

Sequence 639

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTAAAAAATAACCTCGGCCG
CCCGGGCAGGTGTCTTGC GCCACCATGCCTGGCTAATTTTGTATTTAGTAAAGATGG
GTTTTCGCCATGTTGGCCAGGCTGGTCTCAAACCTCTGGCCTCAAGTGATGCACCTGCCT
CAGCCTTCCAAAGTGCTGGGATTACAGGCATGAGCCACCGTGCCCGGCCAAAGTCAGCTT
TCAAAATCCAAGCCATAATTGGTGAGGGGGGAGTTTCAGAATTACATATAAAAATTAATA
TTTGAAAAATAATTCTGAAATTTGCAATTTAAAAACAGATGTGCTGCTTCTGGGTGTAG
GTAGTAAAGTNTAGGAAAAGGAAGTGTTCCTTAGAAGCGGACTGTGGAANGCCTTAT
GTAGANTGTCAAAGGGCANCANGAGCCCGNGTTTTTAAATGGCATTACTGTACCCTTCGG
CCGGTTCTAGANCTTTTGNANACCCCTTTACNTNCCCNAAATTTTNTNTNAAAGGCT
TTNTCGANTCCCTCNTANTTCGNGGGGGGGGGCC

Sequence 640

GGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCCGAGAAAAGAGCTAGGGTAGGC
AACTAAACTTACACAGTGCCAGTCTCAGGAGGTCACTAGCTCACAGAACTCAACAGATA
AACTGGATTAAAACTTAAAGTCTTCTTTCTATTGAGCCATAATGACTATTTTGAACA
TGGCTCTTTGCTGCTGCCTATATATAAATTTTATTAAATTTCTTGATTGGGAAGAT
CTTGAATACGCTCCAGGATGAGAAGAAAAATACGCTGACACTGCTAAATCGGGTATATG
TTTTTGCAATAAAGAACACTGGTCAATATACAAGTGAAGAAAACTGAAACAGATGTGAG
TCCTAGAACCACAAGAGTTTGAATTTGCCAGAAATGCTATTTTAAACACTCTATATGGT
TGGNCTGCTGTTTTTTGNGGGAATAATGCATTCTTGGCATTCTTAAAA

Sequence 641

ACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACCTCAGGGGTGGTCTGT
GGAAGCCTTAAACTCTCCACACTCAGAGTCTTTGTTTCCCAGAGGCTGTTGCAGAAC
TCCTCAGCCCAACGGCAGGTATGTCTCCCTGCAACACAGCTGTTGTACCTGCCCG

Sequence 642

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGNCAGGNACAAGCTNTNT
TTTTNTTTTTTTTTTTTTTTTTCGGAACCGTACCAGAAAAATTTATTAATAAAATTAATA
CTATT

Sequence 643

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGTCAACATGCTAGA
GGTCCAGCATTTCACAAATACGCCATGCAGTTACATGAGGACTGCTACAAATTTTGGAGC
AATGGCCATCAGCTCTGTGAGGAGAGGAGTTAACTGATCAACACTGTGTGCACAAATTT
CACTCATTACCTAAATCAGGAGAAAAACCAGAGGCTGATAGAAATCCGCCTGTGCTATAT
CACAATAGCCGAGCTCGATCTACTGGTGCTTGCAACTGTGGAAGGAAACAAGCACCTCGA
GATGATCCCTTTGATATCAAAGCAGCCAATTATGACTTCTATCAGCTTCTGGAAGAAAAG
TGTTGTGGAATAATTGGATCATATCAATTTCCAGTATTTGAACCAAGTACCTGCCCG

Sequence 644

TTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGGTACTTCAGGGCTGT
GAGGAAGGGGTGCCTGGAGTTCTGCAGGACGCGGTTCTCGGTGAGTGTGTGGGCCACCTC
GTCTTGGCCACGATGACTTCTTCTTGAGGATCTTCATGGCCGTAAGTAGCGGCCTGTG
GCCTTCTCCTTCACCAGGATCACCTTGCCGAAAGTGCCCTTGCCAGCAGCTTCAGGTAC
CACTCTTCCAACCTCTGAAGGAAGCTGGCTGTGCCCGTTGACTCTGACACCTTTGAGTC
GCCAGTTTGCAAAGCCGCTCAACAAAGCCAGGAATGCTGAGAAGGGCCGCTTGATTGATT
TCAGCTGCAGAAGGCCCAAACCTCAAGCTCTTCTCTGTTGAGCATTTTTGGCAAGAAGC
GTGTGCTTGTATCATTCCTGTATCCATCTCTGAAAATGGTGACAGCCAAGAATCCGGC
AGAAATTAGCGAGCTGCTTGCTGATCGAAATTG

Sequence 645

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCAGCAACGCGGAG
GAAACGGGAGTGAACGGAGAGCGTAGTGACCATCATGAGCCTCCTCAACAAGCCCAAGAG
TGAGATGACCCAGAGGAGCTGCAGAAGCGAGAGGAGGAGGAATTTAACACCGGTCCACT
CTCTGTGCTCACACAGTCAGTCAAGAACAATACCAAGTGCTCATCAACTGCCGCAACAA
TAAGAACTCCTGGGCCGCGTGAAGGCCCTTCGATAGGCACTGCAACATGGTGTGAGAGAA

Table 1

CGTGAAGGAGATGTGGACTGAGGTACCTGCCCCGGCGGCCGAGGTACCTGCAGAAGGCCT
ACAGGGTGCCAGGCACCTTTAATGTGTTCTTTCTTTATGTGATTATTTGATTAATCTC
TGCCTCCCCCACTAGGACTGTAAGCTCCCTGAAGGCAAGAATCCTGTGCTTATGCTCAAT
ATTAGCTCNTCCCTTGGCACAGAGTAGGCACCTCAACAAATGCTCCCCA

Sequence 646

TTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACCCATCTACAAAGA
CCTCTATTACATAAACACTGCTTCTTACAGGAAACAAACCTCTTCTGGGATCTCCTTTTG
TGAAACCAGTTTGATGTGCTAAAAGTAAAAAGTCTATTTCCAGTGTGGTCTTGTTCAG
AAGCAGCCAGATTTCCAATGTTGTTTTCCCTCCACTCAGAAACCCCTGCCCTTTCCCT
TCAGAAAACGATGGCAGGCATTCTCTGAGTTTACAAGCAGAGACTCACTCCAACCCAAA
CTAGCTGGGAGTTCAGAACCATGGTGAATAAAGAAATGTGCATCTGGTCTCTTCTGTTG
TTTTTATTTTCATATCAGATTAAATTTCTTTACCATGTTGGCTAAGTCTAAATATTAGAGA
TGAGGGCTGTGCCTACTCCCTGGCCAGCTCTNCTGATAGCCTATGATGGGGTTCCAATGG
GGAAATGACTCTTTACTATTAAAAGACAAGGGAAAGGC

Sequence 647

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTGGGATTACAG
GCGTGAGCCACCATGCCTGGCCAGAAATCTATGTTTTCTTAGAACATGTGGAAGAAGGAA
AAAGACAAAAAGGAAGTCTGGATTCTGAGGACCACGTCTCACCCAGGGTGACATCAGGA
ATGGGTGCTAGCCTCTGCAACACGACACCCAGTCTGAAGAAGCTCTATACAGGGTACCCT
NGGNCCGTTTTAGAACTTAGGTGGGATCCCCGGGCTTGCAAGGAAATTCGAATATCAAA
GCTTAATCGATACCGTCAACCTCGAGGGGGGGGCCCGGTANCCAGCTTTTTGTTTCCC
TTTAGGG

Sequence 648

CCGCGGTGGCGGCCGAGGTGTAGGGTGTTATCCCTGTGACATTGTCTCTTTAGTTTGCTC
TTTCAAGAGATACTTACAGATGTTGAGATGGCTGCCCTGCATTTCAGCTAATCTCTTCT
GCTCTAAATATTTAAAAACAGTCTTCTCAAACATTTTCATTTCAGATAGCTTTCTGAAAG
TTCCCTATCCCTCTTTACCATAATTTTTTAAATGTAGCCACATTGTAATAGTAAACTTCA
TATAAATGAGTGCTTCATATTTTTGTTATGGGAAAGCAATATATTATGCAGCCAGTCTG
TAGAAACATTCAGATCCCTCTTCTTTACTCAAATACAGTTTTCAAAGGAAGACTCATGA
GAAATTTCAAAAATACAANGTTTTTAGATGTTTATGCTTTGCCTTTCTTTTTAAAGGNG
NTTTTCTGCTNTGGAGNCNCTAACTCTGGAATAATTTAAAAATATGTAAACNAAAGGGG
GTTT

Sequence 649

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTGCTATACATG
CAAACTCTTAGCACCTGAATTTGTAAACATTTACACGTATCCGTGTATTCCAGAATATG
AAGAAAAGGACCATGAAGTTGCACTCATTTTTCTGGACCTCAGTCTATCTCAATAAAAG
ATATTTCTTTTCATCTGCAAAAAAGGATTCAAATAATGTTAGAGGCAAAAATGATGACC
CTGACAAGCCATCTTTTAAACGCAAAAGAACTGAAGAACAAGAGTTCTGTGATTTGAATG
ACAGCAAGTGCAAAGGCACAACACTGAAAAAATTATATTTATAGATAGCACCTGGAACC
AAACAAACAAAATATTCACTGATGAGCGACTTCAAGGGGTTGTTACAAGTTGAGTTGAAA
ACAAGAAAACCTTGCTTTTGGCGCCATCAAAAAGGGAAGCCAGATACTTCTTTCTAC
AATTGAAGCCAT

Sequence 650

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTGAGGGGCTGCTGGA
CAGAGCGGTAGCGATCAATGCACAGGATGAAGACACTGAAAATGGACGCTGTGCTGGCCA
CATAGTCCATGGAAGCCAAAAGAGGCGAGAGGACGGCCCACTGACCACTTGACCTGCC
CGGN

Sequence 651

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACAAGCTCACTAAAAGA
TTGAGACCCCTCCTAGGACTATAGAACCCTTCTCTCCCTCCATATTTTATCACCACAT
TACTAAAGGCCTGTTTGCAGCAGTTCTCTTAACCTTGTTGTGTCATGTCCAGTAATCAAGA
AAAAAATTACAAGACATATTAAAGGCAAGAAAAAACAGTTTGACGAGAAAGAGCAAGTAT
CAGAACCAGAGTCAGATATGGCAGGGATGTTAGAATTATACACCAAGTGGGATTTATCCC
AGGTATTCAAGGCTGGTTCAGCATTATTCAAAAGTCAATTAAGGTAGTCCATCATCACA
TCAGCAGGCTAAAGAAGAAAAATCATGATCATAGCAGTAGATGCAGAAAAAGCATTGAC
AAATCTAACCCCACTTATGATCTCAGCAAACCTAGGAAGAGAGGGGAACATCCTCACT

Table 1

TGATAAAGGAATATCTACCAAAACACCTATTAGCTAACATCACACTTGATGAAAACT
Sequence 652
TTAGGGCGAATTGGAGCTNACCGCGGTGGCGGCCGCCGGGCAGGGTACTTTTAGTAGAG
ACAGGGTTTTACCGTGTAGCCAGGATAGTCTCGATCTCCTGACCTCGTGAGCCGCTGC
CTCGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCGTGCCCTGGCCACGTCCCTA
TTTTAGAAATGAGAGGAGTGACTGCACATAGGAAAAATGCCACTTTTAGCAATTCAAAGT
GGAAAACTTCTTTTATATAAAAAATTATCCCACTCCCACCCCTTGGCTCTCAGTGTTC
ATCTCCACAGAGGTAAAGTTGTGCCATTTCCACGGCTTAAACAAAGCAAAACAAA
CCACCAATCCTAATAACCC
Sequence 653
CCGCGGTGGCGGCCGCCCGGNCAGGTACAGAGTTACAGAGCATAATTTTAAACACTTAGT
TGCAGGTATATAAGTATGGTATGTTTCATGGACTGGAGACTTTCCTGTTCAATTTTTAA
ATATTATTTTCAGGTCTTTGCTTACCAAAGGAGGCCCAATTTCACTCAAATGTTTTGAG
AACTGTGTTTTAAATAACG
Sequence 654
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACCCGAGACT
GGGAAGAAAAAGAGGTTTACTTGGACTTACAGTTCCACATGGCTGGGGAGGCCCTCAGAAT
CATGGCGGGAGGTGAAAGGCCTTCTTACATGGCAGCAAGAGAAAAATGAGGAAGAACAA
AAGTGGAAACCCCTGATAAGCCATCAGATCTTGTGAACTTATTCATATCACAAGAATA
GCATGGGAAAGACTGGCCCCCATGATTCAATTACCTCCCTTGGGTCTCTCCACAACAC
GTGGGAATTCGGTAGATACAAATTCAGTTGAGATTTGGGTGGGACATAGCCAAACCA
TATCATTCTACCCCTGGCCCCCTCAAATCTTATGTCTNACTATTCAAAA
Sequence 655
CTACTATAGGGCGAATTTAGCTCCCCGCGGTGGCGGCCGAGGTACACGGAGCTTGAAGCC
GAAAAGGGTGAGGATCACTTCTACAGAGAAGGAGCCTCGGTCCACAAAGTCACCATTA
TATATAGGGGTGGTCTCCGAGGGTAAACCGTTGAGCTCGAATATGTTGAGGAGGTCATA
GAACTGGCCATGGGTGTCCCCACATACTGTAATCTTCTGTCTCTTTGAGTGTGGTTTC
CACGAGCGTGCTCAGCTTGGAGAGGACCTCTTGACCTGTACTGAGTTTTATTATCTCCA
ATAATAATGGTCTGGAACTCAGGAGGATCATAGTAAACCTCCAGTGAAGGTTAAATTC
AGGCCTGTTGATTTTTCTTCGTTTTATGTTTTCCAGCAAGGATATCATAAGGACCAACT
AAT
Sequence 656
ACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGNCAGGTACTCTCCAC
TGAACTCTGGGGCCCACTGAGGCACCATTTGCGGATTTAGGGTGGGCTGGGCACTG
CA
Sequence 657
CCGCGGTGGCGGCCGCCCGGNCAGGTACAGAACTGGGAACAACACTTGGTTAGTCTCTT
TTAAGTTACAAAAAGCCAATTGATGTTTCTTATTCTTTTAAATTTTAAATATTTGTTA
TAAATACTCACAGGATACCTTATTTCCCTAGCTATCATCTCCTGACTTAATGTTTTTAA
ACCCACCAATATAAATTTAATTAAGATATATGTTGAAAAAAGAAAAAAAAAAAAACC
TTGGCCGCCCGGGCAGGTACTCTTTCCACTCTGCGGTTCTGCCAAGCACCTTGCCCTG
GCACTTGTTGTGTGCAAGACTCTACAGTGTGGTGTCTGCTGCTTTTTTTTTTCTTCT
TC
Sequence 658
AGGTTTTTTTTTCTCTGAGTCTCTGACGTCTGCCCCAAGNGAACAGCTGCGGCAGCCC
CTCCCAGCCTACCCCTNCTGCGCTGCCCCAGAGCCTGGGAAGGAGGCCGCTATGCANGG
TANCACTTGNAACAAGGAGAACCACCTTGAAGCTTATTNCTANCCCNAGCCACCT
TGGGGNGGNTTAANTTACCCTGGGGGACCCCTTNCCTGCCCNAATNGCCNTTCCANTTTA
CAAAAAACAAATCCAAATTTGCNTTTTTTTTTTTTGGTTCCCAAAANNTAAAAAACN
CTNAGGCTTTATNCNTCTTGCCCNANNTTTTANTCNGNANTATTTGATTNANAAAGT
NGGGGGGGGGGNNACNCTTGCCCCAGGGACGGGGCCCNCTTCTAAGAAACCTAAGAC
GNGAATC
Sequence 659
CACTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTTTTTTTTT
TTTTTTTTTTTTTTTTTAAACAGGAGGAAAAAAATTTAATAATATATGTTTGCAC
AGGAGTTCCACGAAATATGAGACTCCAAGAGGGTCAGATGATTGACACTCATACNCCAT

Table 1

CGTGAGCTATCGAAAAGAACGGCAGTTTGGGAGTTCTGCAGGGAGTTGACCACANAAGTG
GGAGAGTGAAGGGAAGAAGTGTGTCGTGAATAAAGCTTGGCTGGTTTTCANATAAAGGT
CTTGCCGAGTGGCCAGGTGTGGTGGCTCACTCCTGTACGTCCCANCACCTTTGGGAGGCC
AAGGCGGGCGGCTCATGAGGTCAGGAGTTTCGAGACCAGCCTGGCCAACATAGTGAAACC
CCGTNTTTACTAAAAATGCAAAAAAT

Sequence 660

CNCTACTT/AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTGTCTGG
GCTGGGGGGGACACTGTCCAAGGGAGTGGCCCCATGAGTTTATATTTTAACTACTGCTT
CAAATCTCGATTTTCACTTTTTTTATTTATCCAGTTATATCTACATATCTGTCATCTAAAT
AAATGGCTTTCAAACAAAGCAACTGGGTCATTAAACCAGCTCAAAGGGGGTTTAAAAAA
AAAAAACCCAGCCCATCCTTTGAGGCTGATTTTCTTTTTTTTAAAGTTCTATTTTAAAGC
TATCAAACAGCGACATAGCCATACATCTGACTGCCTGACATGGACTCCTGCCACTTGGG
G

Sequence 661

GACTACTATAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGCCNCGAGGGGGTTTNNATTTTCATT
ATTCANACAAANAATTTTNTANAANATCCCGGNCAAACCGAAAATTTGGCAGNCCNAT
NGGGGGGGG

Sequence 662

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAATTTCAATAATAAATTA
AAAAATGAGTAAAGTAAGTCTGAGAGAAGTTCATAGTCACTATATTACTCAATGACATT
TTTCTGCCTTCATTTCTAAGAGTTCATCTGATCCAAGGTCTGATCATCTTCTTGACAGAA
AACTTGTTTTGACAGCACATTTGAAATGCCGAGTGTTTTGTTATGTCTAAGCAGCAGAG
TGATGTTTGTAAATAACAGAAACACTTTAAAAAGAATCAATTGCAATCAAGAAGTGTGA
TGAACATTTGGACAANGTACTTTGGCCCGGGGCCGCCCGGGCAGGTACAGCAAGTT
TTTATGTCTTTTTTTAATAAATAGGATTTCTAGGAGTCAGTATATATTTAATACTCTTCT
TCCTTAAGAAATAAGAAGTTTAGGNCCAAGTGTTAAGCTTTATCCTTGACACTGGCCTTA
TCTCATATGGAGGGATTAAGGGGCC

Sequence 663

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACGAAGAGAGAAATTC
AACAAATATTGCTGTTCTTCAGTTTTGTTGTGGAATTTGAAATTAATCAAAATTTAAAA
TAAATTAAGTGGACTGTGGAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
GACCNCCCCG

Sequence 664

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTCACTTTTCAAT
TACTCTAAATCCATTACAAATCTGCTTAGCTTCTAAATATTTTCAATGAGGAAATCCC
AGCCCTACAACCTTCGGAACAGTGAAATATTAGTCCAGGGATCCAGTGAGAGACACAGAAG
TGCTAGAAGCCAGTGCTCGTGAACATAAGGAGAAAAAGAACAGACAAGGGAACAGTCTGGA
CATGGCATCA/GAGATCCACATGACAGGCCCAATGTGCCCTATTGAGAACACTAATGGGCG
ACTGATGGCGAATCCAGAAGCTCTGGAAGATCCTTTCTGCCATTACACAGCCTATGGTGG
GGGGGTGGC/AAATTGTGGGCCTCTACCGCACAGGCAAATCCTACCTGATGAACAAGCTGG
CTGGAAGAAA

Sequence 665

TAGGGCGAATTGGAGCTACCGCGGTGGCGGCCGCCCGGGCAGGGTACACNGTGGATGG
GGCAGTCGGTCTTNTCTGGGCAGGTTGTTGTTCTNTCGGTAGTGTCCGGCGAGATGACC
TCCTGCTGC/TGGGCCTGGATGGCCCCCAGGATCCCCAGAGCAGGAGCACGGAGCAGGTG
CCCTGGAGCATCTTGGCAGCACCTGTGGCCCTGAAGTCTGTCCTCCGAGGAGGCACCT

Sequence 666

CTACTTAGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTTTTTTTTTTTTTTTTTT
GGCAGTGAGGACTTTATTGGGGAGGGTGACTTTGGCTTCCAGAAAAGAGGGAAGGTGGGG
ACCTAGTAACAATAACCATTTATTTCAAGGAGGCCCTGGCCCTGAACCCGGGGTTCCCAC
AGGAATCAGGGAGGCACCTGAGTCCCCCAGGACCAGGGCATCCAAGGCATCATGGCAGC
TGCGTTGTTCAAAAGGAAGTTTCATTGAGCTTCATCTTGGGAGGTGTGAGGGGGAGTGCC
GAGACCGCTGGAGGGCCACGGGGCTGGTGTGGGTGGGCCGTGCGAGGTCTGGCCCACTCC
GCACCAAGTTCTGGCAGCGTTCCACAAAGCTGCCCCACACGGCGCGGGGCTTNAGCC
TGCGGGGGGCTTGGGCTCCACGGTGGCCAGAAAGGGAAGGTGTTNCTGNAGGCTNAGTG

Table 1

GAGGCTG

Sequence 667

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTCCTCCTCGTCCTGCCG
CAGGGCCAGAACCCCTGACGGTATTACAGCTGCGCGTAAGTCTGGCCGGTGCCATCTGTCT
CCGCAATGCCCCCAAGAAACAGGCTCAGGCCGGGGCAGCAAAAAGGCCAAGCAAAAAA
AGAAGGAGAAGATTATCGAAGACAAAACCTTCGGTTTGAAGAATAAGAAAGGAGCAAAAGC
AACAGAAGTTTATCAAGGCTGTACACATCAAGTTAAATTTGGTCAACAAAATCCACGTC
AGGTAGCACAGAGTGAAGCTGAAAAGAAATTGAAGAAGGATGACAAGAAGAAAGAATTGC
AGGAGCTAAATGAGCTGTTCAAACCTTGTAGTTGCTGCTCAAAAAAT

Sequence 668

CCGCGGTGGCGGCCGAGGTACCCCTGTTGGTATCTAGGAAGTAAGTACTGCTTTTGAT
TTTACAGGCTCATAGGTGGAAGGGACTTGCCCTGTCTCAGATGAGACTTTGGACTGTGGA
TTTTTGCGTTAATGCTGAAAAGAGTTAAGACTTTGGGGGACTGTTAGGAAGGCATGATTG
GTTTTGAATAGTGAGGACATGAGATTTGGAGGGGCCAGGGGTAGAAATGATATGGTTTGGC
TATGTCCCCACCCAAATCTCAACTTGAAATTGTATCTACCAGAATTCCCACGTGTTGTGG
GAGAGACCCAAGGGGAGGTAATTGAATCATGGGGGCCAGTCTTTCCCATGCTATTCTTGT
GATAGTGAATAAAGTTTCAAGATCTGATGGCTTATCAGGGGGTTTCCACTTTTGCTTC
TTCCTC

Sequence 669

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTTTGGAATCTAAT
GTATTGTAAGGTATTTTACACGTGTCCTGATTTTGCCACAACCTGGATATTGAAGCTATC
CAAGCTTTTGAATAAAATTTAAAAACCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAA

Sequence 670

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAACTGGATCTATAG
ATATTTTGAAGTGGACAGGTGGGTATTGAAGTAACCCATCAAAATATGCTCTGCAGTGA
TTCCGCTTAATGTTTAAATTCAGTAACCGTCTTTTTTTTTTTTTTTTTTTTTTTTTTT
CTTT

Sequence 671

GCTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGGCCTGCACCAG
AAGATGTCTGCATTACTCATTGCTAAAAATGTGTAGCACAGAACTGCACTAGGATTAATT
TGTTTACAAGAAGAAATTTAACTCTACGTTTGGTTTTTACATACAGCAGCTCTATTGAA
TAACATGCATCTGAATTTTAAAGTTGCAAAGGTATCTGAATAATTTTTCATGTGCATCTTT
TGTCGAATGTTTTGGTTCAAGAAAGAAATGTTTAAAGCTTTTAAAGACTTCAGTTCTTA
ATGTAAGTGTACAAAATTAGTTGTAAAAATAACATAATTTACCAGTAAACCCACTCATA
TAGAAATGTGCAAAGCCTTTTGATATAAAAAGGTTTGTACCTGCCCGGGCGGCCGCTCTA
GAACTAG

Sequence 672

AGGTACTGAAGCCAGCCACGCTGCGCCCCGGCCCTGCCCGGGCCTTCCTCGTGCCCTGGGA
GGTCGTTCTAGGGATGCTCCTGACCTCCGCTCTCTTGGACCTAAGATGGAATGTGTCCTCA
GCTCAGGGATTGCCTGAACCAAGAGGCCAGGAGCCCCCATGGGCGGCCAGTACCTGCCC
GGGCGGGCGCCCGGGCAGGTACAAAGTGCTGCAGTAGCCGGTGAGCAAACTCATGTGTGG
CTCCATCTCGGCTCCCTGTTCTTCTCAGGAATCCACAGCTTCCCAAAGCACTGTTGA
TGCAGGAAATCTAACCTGCCTATTACGCCATC

Sequence 673

CCGGGCAGGTACAATAATCCTACAGGAATAATAACAACAGAAACATATTAACAGTTTCC
TTTGGCAAATTTAACGGAAGTGAATGCTGATGTGAACATAGAAAAATAATTACAAAAAC
ATGAAAAATGGAACTGACATAAAAGTTAAATAAAGGGATATTTCTAACTTTTAGACTG
ATGAAAGAAATGCTGAGGCCATTAAATGCAAAAAGAAATACATTCTCTTTAAATTATT
NGTACCT

Sequence 674

AGGTTTTGCTTTTTTTGAAAAAGGTAAGTTGCTGATTAAGTCTAATTGGAATTGATAAT
TCCATAGTCTTAGATTAAAAATGAGGATATTTCTCCTAGATTTTCTCATGTTATGCCATG
CATTTATATATCTAACCATTAATTTACACTAAGGATGCTTCACCATATAATAAAGGAG
CAAGATGGAAGCACTTTGAATTTTCTTCATTGAGAATAACTGTTTTATGTAAGAATCTG
TATTTATAACACCAGATATTAAGATAGGCTTCCATTTTTTAAATGCAAGCCACTTACTTAA

TCTTGNATTCTTTTC

AGGTACACCTCTGTCCTCAAACCTGTATCTTCTTTGGATGGAATTAAGATGTAACCTGTATA
GTTTAAAGATAAAATAAATGGGAAGTTGGTCCAACCTAAGATGACAGCAGATATATTACATG
CAGGATTTAATATTTTCTAATTCTCTCTTTTAAAAAAAAGGATGCTGTTGGATTGGGAAA
AAAAAAGTCAAAAAAGAACCCAGATTCAATATATAAAAAATGTCCCACAATAGGTCGACAA
TGGCAGTAAAAATAAGAGGAAAAAAGTAATCTTTCTGGAACATCATTTTCAATAACATA
GAAACACTAAGTGCCAGGAAGATTCTAT

CCCTTTTCGAGCGGNCGNCCGGGCAGGNACTTTTTNTTTTTGTTAACTTTATTTTTAAAT
CATGACACTTTCACTGATCATTAGGATGGCAGGNGNATCGNTAAGAACCCAGGATTATAAG
ATGAACAGGCCCTCAGGCTGTGNTNTAACAGCCTTAATCTATGGTAAGAGGCAAGGNAT
TTAATCTCCTTTGCTTCTACGATNATGGCTCANATATGTTTGCTCTGCTCTAAGAAAAAT
GCATCAGAAGCACCTTAGGTTTGGCAGGNAGGGGCTCTGATGTTAACAGGATTGGGTAGA
GAAGCTCTTGATGCTTGGAA

NCCCGGNNNNNNNNNGGGGNNGGGGNNNNNNNNNNNNNNNGGGGGNNNNNNNGGGGGNNNNNN
 NNNNNNCCCNNNNNNNNNNNNNGGCCGAGGTACCATATCAACCAGAGCCAGNCCACCACC
 ATTGGAATAAAGNCCCAGCCAGTNAAGGTGGCCAAATTATCCCACCATTAGGAAACAT
 TTTTTCAGGCATTAATGGACCCAATGGAAAAATTTTCTGGTTGGCC

AGGTAAGTCTGCTTAAATGAACACAAGATGGTGTCTCAGGATTCGAAGTTTCTAGTCTTTCTAG
GGAGTTACCTAAGGTCTAAGTTTATCCTGGACAGAATCTCTTGGGGAAGTAAATGCTA
CCAAATGAAAAGCTCTTGATACTCCTACATCATGAATATTATTGAGCTCTAAAGTGAAC
TGGTCGTGTCTCAGGAGAACCCTTAACTGCTCATGGCAGTCTTGTGGACTGAGAGGAAGTA
CCTGGCCG

[illegible]

sequence
TAGNAACTAGTGGGGATCCCCCGGGGCTGGCCAGGGAATTTCCGGATTATTNCAAAA
GGCCTTTTAATTCGGAATACCCGGTCCGGACCTTCCGGAGGGGGGGGGGGCCCCCGG
GGTAACCCCCAAGCCTTTTTTTGGTTCCCCCTTTTAAAGTTGGAGGGGGGTTTNA

AGGTACAACTATTTTATTATCAGCAAAAATTAACATCGACTGGACCGAGAAATGACTCC
TTTTTACAAACGGGGAAAGAAACGGGAGACTCCTGGAGGAAAGCTGCTTCTGCTGGACATG
TTCTCCCGCGTACCTGCCCG

[illegible]

AGGTACATTTTGAACAATCTACTCTTCAAGTGATCATTTACAAAACAAGAACATAATTCCTGAATCAGTAAATTTTATTTTTCAGAAAGATGACAAAGAAATTCATTACACTATCACGATTTACATTTTCTACAATTCATGCAGC/TTCTCTCAATTCACAATCTACAAACCACAACAATGCACAAATTTGATGTTAGAGGATAC/TTAATGTTTAGTCTCATCTCAACAGCTCATCTGTGCTAGTGCTCTCATCTCTTCACTCTTCACTGTTACTTAAAGAACAAAGAACTAAAGAAGCCAGAAGAACTAGATCAAGCGATGAGACCAATTTTCAGGGTAAGGCATAATTA

AGGTACTACTGGCACTGAGCCAATGTATGCTATCAAGGAAAGCTTTATCTGTCACTGAGC

Table 1

AAAAGGTGAAGTTCAATTAGGTCAGTTTTATCACTTCTTTTCTACACACAACTATGAG
GAGAGATCATTCTTTTCTTTCTTTTATTTATTTATTTTTTGGAGACAGGGTCCCACTC
TGTCGCCCGAGGTTAGAGTACCTGCCCCG
Sequence 685
AGGTACCTCCTGCCTTGAGTGATTTAAAGCATTTTAAAGATATGCTTTGCTGCCTCTAGAT
ATTTCTCTGGTTAGATCCCCACAAAGATACTGTAACATTAAGTTCTGGGACCATTGAGA
ACAAACTAGCTGCTCACAGATTCCTGAAAGAAATGCAAAACCTTTTCTCTGGCCCCAAGT
ACCTGCCCCG
Sequence 686
AGGTACTCTTTTTCAAAATGCCATATTTTGAAATTGCTATTTGCTATTATATGATGCTGT
GTCCTTGAGAAAGAGAATACATGGATCTGGCAACCAGGAGTGTGTGTAGGTAGAACTGGC
TTCTCTCATATACCCCAGGGATCCAATGGGAAATGTTTTCTTCTGTCCTTTTAACT
TCAGGTTTTTTTTTCSGGGGGTGGGGGTAGCGGTAGGGGGTTAGTGAGGATCTTCTAGCA
GAGAATACCTTACAAGGATACCACTAAATCTAAAGCTCCAACCTACCTNCTGGNCACTTNG
GGCTCCTNCTGACACTAGNCCAGCNGGCAAAAAGGNTACTGAACT
Sequence 687
AACCCACCGCGGNGGCGGCCGCCCGGGCAGGNACTNCTTGCNNGGGATTAAAAACCCGAC
AGCAGCAAACNGCAGAANCNNCAGACNGCAGGNTTGCNANGGNGAGAGGGAAACNCCCGC
CCNAAACCCACNGCCACNGAACCCNGCNGGGANACCAGNGGCCCNNGGNGGANGCACCANA
GATGTTTGAGCCNGGNTNCTGGCCAGGGGGNGGCCGCCACCNANNN
Sequence 688
CCGGGCAGGTACGCGGGGGGATTGAGAGTGAGAAGGCATAAAGGAGAATCCCCAGCTGAC
TTGTGCAGTGGTTAATTGAAATTATTCAGGCAAGAGATGATGGTGTCTTGGACCAGGGGA
TGAGGAAGGCTACAAATGTGTCTACCTGTATTCTGTGAGGAGAACGTGTTCCCTGGTTT
TAGATACTGTGAAGATGGATCAGGAGAGAGTTTATCTAGACTGTTGGGGAAAGGTGTTGC
GATTCCTTCAGCTACACAGGATTGAAAGGAGACATTTCTGAAGGGGAAAAAGGAAATGAA
AAANNNANANNNNNNNNNNNNNNGGTACCTCGGCCCGCTCTAGAAGTGTGGATC
Sequence 689
AGGTACTGCAAACTAATATTAGTAATAATTTGTTGATATCAGCTTGTGAGCTTTAAAAAG
CCTGGTCAAACAAGTTTATGTATTATGTTTATGCATGCTATGTTTAAATGAATAATTA
AATTTTGAGTAATTATTAGGATTTGGCTGGGACAGGGGATGGATGAGCTTTCTGTTGTAA
TTTTGCTCTTAGTGAGTAGTAGGTACCTGCCCCG
Sequence 690
AGGTACCACTTGTGATGTGTTAATAAATCTGTGTGGTTTTTACATAGCCCTGAGAGGT
AAGCAATGAGTCAGGAGTTTCTCCAAGCACCTGTTAAGTGGCATCATATAAATAGCAAT
GTCAGGAAATCAGGTACCTGCCCCG
Sequence 691
CCGGGCAGGTACTGGAATGAAAATACAGGTAAAGCATTTGAAAATTATTTTTCTGGCTTA
GACTGTTTACTGGCTCGATTCTAGCTCTGTCTGGTAAAGGCCTCCAGAACCTTACCTA
CTATTATCAAGTCTGGCCTCATAGGGAGGGACTTTTACTGTACCTCGGC
Sequence 692
GAATTTCCATCGGTTTGCTGAGAAGCACAACCTTTGCAAAACCCCAATGACAGCCGTGCTCT
CCAGCTGATGACCAAATGTGCGCAGACTGTGATGGAAGAACTAGAGGATATTGTGATCGC
GTATGGACAGAGTGATGAGTACCTGCCCCG
Sequence 693
ATTGGAGCCTCCACTCGCGGTGGCCGGCCCGCCCGGGCAGGTACCATAAGAACATTAAAAG
CTGAAATTCAGGTTGGTCTGCAGCCTGGGCAAGGGGAACAGCTCCTGGCCTCTGAGCCCA
GCTGGTGGACCACTGGAATATGGAATATTTTCACTACCTTTTTTTTTTTTTTTTTTTTTT
TTT
TTT
CATGGTCATAGCTGTTTTCTGTGTGAAATTGGTTATCCCCTCACAAATCTCACACAAC
ATACGAGCCGNGAGCA
Sequence 694
TATAGGGCGAATTGGAGCTCCCCGCGGTGGCAGCGGCCCGCCCGGGCAGGTACAACAAAAG
TTCATCCTAGTAATTCTTAAAGCTTTCAATTCCTATAGAGTTTAGCCTTTGTCAATAGC
CAAAATATGTGCTTGAAAAATAACTTCTTTGAGTTTCAAAGCAAATGAAAACATAAAACA

Table 1

AGCAAAAAGGCTTTTTTGTGGTGNTTTTCTCTGCATATCTAGGGTTTGTTCATT
CATAAATACGGTTTTCAAAGCATTGCCTCAGCCAAAATTATTGCCCTTTTAAAAATG
CTTTTCATGTATACACTTTCTACATAACTGCTTTTCTTTACAC

Sequence 695
AGGTACATGAAGGCCCCAGTTCCCCCATGCTAGACACGTCCCCAGAAGCAGCACCTAAT
GGGCAACACTGCGGAATCATTTTCCACCCAGATCAGGGGCATCCACGGACACTTATTCC
AGAAAACCTGAAGCTGGGCCACAAAGAAGGCTCCCATCCTTGCTGCTATTTGCCCTGGACC
ACTTCAAAATGTGACACATCGGGCTGCAGTGAGCTGAGATCGTGCCACTGTACCTGCCCG
GGCGGCCG

Sequence 696
CCGCGGTGGCGGCCGAGGTACTGAACATGTTCTAAACTCAGATAGTGATGACTGCACAAC
TCTGCGAATACACAAAAAACATCCTCGGAGGGAGTCTGAAGGTATGTAAATTACATCTC
AGTAAAGCTGAAAACTGCTTTGGCTAAAGTGGCTATCCCTCCATGGTGCTGGGACCTGC
CCG

Sequence 697
CCGGGCAGGTACAGTGAACACGCCTGTAAACTATCACTCATATGAAAGAGAGGACAATA
TCGGCGCAGAATACATACTAGCAGATACTGCTTTTTACTGTGATTGGAACTTTTGGT
ATTCAAGTAACCACTAAGGAATATAACTCTAACATGGACAAGGCTTAGATGCATCATGAA
AGTCTGTCATGGGAAAGGTCTGTGGACAGAGGATGTACCT

Sequence 698
AGGTACAAGGCAGCAGAAGCAACAAAGGCTGTGGCCAGCAACGAAGGCAGAGTCCCCGGT
AGGCGGAGGTCCCCGTGCACAGTGTGGTGCAGCAGTGAACCCAAGATTTTCTTCACAGG
GCAGGGGAACCTATTTCTAATAAGCATTGGCATTCAAGGCCACAAGGGCAGCCATTACTCA
GCACTGCACTGACCTTGGGAATTTGCTGGGCAAGGAAAATGACGTGGCCCTCATCATCGA
TGGCCACACCTGAAGTACCTGCCCG

Sequence 699
CCGGGCAGGTACTCTAACCTGGGCGACAGAGTGGGACCCTGTCTCAAAAAAATAAATAA
ATAAAAGAAAGAAAAGAAATGATCTCTCCTCATAGTTTGTGTAGGAAAAGAAGTGATA
AAACTGACCTAATTGAACTTCACCTTTTGCTCAGTGACAGATAAAGCTTTCCTTGATAGC
ATACATTGGCTCAGTGCCAGCAGTACCT

Sequence 700
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTCTGAAAAGCCTAGTG
CACTCCAGAAGGCAGGTGGAAGGTGTTGTTTGAAGTGAACCTATTTTATTTTCTCAAG
AAATTCCTTGAGCCGATTCTGTGACATGAACATCTAAACAGAGTAACCAGATTCCAACCTGC
ATGACTCGAATAGGTTTACACATTTTCTCTGTCCCGCCTTTCAAACAAAATGGTAAAT
AAGTCAATTTCCAGGCCAGTTTAGCATTCCCATTTTACCCTGATGAGTCCCATTTTAA
TGAGCAATTTGCTTTATCCAGTAGTGCAATTAGTGAAGTGTTTCTGATTTTATGCGGCAA
GTGTTTAT

Sequence 701
ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCTTCTAAAAATGAGTGAACATGCTGAC
TTACCAAAGTGTGATTTGAGTTTCTGACCCTCTGCATGAAATGTGAACATGAGCTATG
CTGAGATCACAAGTTAAATTTACTTTTGAACACAGGTATACAGTTGATGGATGTCAAATG
ATAAACGTATGCATAGTGATGAAACGGTCTTTTAAGTTTGGGTGTGCATGTTTGTCTTT
TTCTGAACCTGATTCAAATAGTTGTAATTTGTACCTGCCCG

Sequence 702
AGGTACCTGCAATGAAGGAGAGGAGAGGACAGGGAGCCAGATTTCCAAGGACGAGAGGAT
GGATGCGGAGCAGGTTTTCTGTAGCATGTGGAGGAGGGTAGGAGGTGGCATGTGATGACC
TCGTGCTCCAAGAAATAGTGCTCAGTACCTGCCCGGGCGGCCG

Sequence 703
CCGGGCAGGTACATCCTACTCCAACAGCCTAACAAAGAGTCAATCAAAGGAGTCTTTTG
ACCTGCTACTTGATTTGAGAGTTCTTAAGCAGTTTCTGTGTGGTTCTAGAATACCCAG
AATGCTGATTTTGGTAGGAGGCTGTGGATATGTACCT

Sequence 704
GCGGTGGCAGGCCGAGGTACGTGACAAATGTCATCTAATAACCCTGGGAGGGCTGGGTCCA
CCAGGCTGTCCCAGTATCCACCACCTCTTCTATCCTCAGGGTGCAAAGGCCAATTAC
TCCCTCTCCCGTTTCTTTTCACTTTTCACTGTTGCTGTATTATGTAGTACCTGCCCG

Table 1

Sequence 705

GCTNATTGGAGCCTCCACCGCGGTGGCGGCCGAGGTACGATGCAAACCAGCAAGCCAGGA
AGCACCTCCTTCCCGTCACCACAGCAGGCCTGAGCAGCAAGGAGCGTCACCGGAGCCCAC
TGGAGAAGCCCCACAACGNCNTCTCTTCCCCCAGCACCGGGGACTATCAGTACCTGCCCG

Sequence 706

CCGGGCAGGTACCCTCCAGGCCCTGTGTATTATTAAGATCTTTTAGTAGCGAGTTGCTCT
TTCTCTGGGAAATCGGCTGTTAAAGTCAGAGGGAGCTCTTAATAGTTTGCATGGTATTG
ATTAAATGGAACAGTTGGATCAGTACCT

Sequence 707

ATTGGAGCCTCCACCGCGGTGGCGGCCGCCGGGCAGGACGCGCTCTCCTTCGAAGTCCG
GAGGAGTTTCCTGGATTTGGCACTCTCGTGCAAAGCGGTTCATATGCTGCAGAGTGTCTCC
TCTGCAGAAGTCTGAGATAGTGGATGTGGTGAAGAAGCNGGGTGAAGGCCATCACCCCTCG
CCATCGGGAGACGGNGCCAACGATT

Sequence 708

AGGTACATCTCTAGCTGATGATTCAAAAAAGAAACCTTTTAATCTCACTCCACTGATCAG
CTATGATACTTAAATGTTTTAGCTGTGAGCAAATAATATGCATTCTCAAAGAGAGTATC
TTCAGACTCCAGTGGCCGAGAATCTAGAGTTAGCAATGGAAAAATTAGTCTCGGGCTTCT
GTTTCTGCCCACAGTTTTCAAATTAAGAACAAATGTGTTTGCACCTTAATGAAACAACCTCT
ACTGCTCTTCAAGAGGACTCAGGATACCGATTCTCGAGGCCCTGGCGGTCCCCTGTAAG
TACCTGCCCG

Sequence 709

AGGTACAGCATCGCTGGTGGTTTCAAAAAACGTAGTCATTCTCTCACTGCAACAATGTA
AGATAAGCAGAGTAGATCTGTTATTTCCAAATTAAGGTGATTAAAGATATATGGAGAGAG
AACATGGCATGTGAGGTTTATAGGGCTAGAAACTGCAGAACCATGTAGAACCCACATTTA
ACTACAGTACCTGCCCGGGCGGCCGCTCGA

Sequence 710

AGGTACATTTGAGATGGTCTCACGTGAGACATCAATACGGCTTGCTGGGGGGGCACAGGTT
TAGGGCAGATGAAACTCACAGGAGGGCGGGTCTGGGTAACTGAGCTAAAGAGCTTTTCA
AGCCACTAGAGCAACANAGCTGCCACAGTTGAGTCAGATTAACTGGGAAGCCTCCAAG
TGAATTGGNTACCAGCACCACATTCACAGATCTCAAAATTTATTGAACTGATTGAGAGG
NTGGATTTTGATACTAAGA

Sequence 711

ACCCCTATAGGGCGAATNNTGGNAAAACCGCCCCGGCGGCCGAGGNACCCAAACCTNTN
CATGGNCAAGAGAAAACNNTTGTGAGGGAAANNNTTAAANNANGACATGAAAATGGA
GACGGANATTAAGAGAAAACAAAAGACTCNCNAGACCAGCATGGACAGNACCTGCCCGG
GCGGCGT

Sequence 712

GGGCGAATTGGAGCTCTTCGCGGTGGCGGCCCGAGGACTCAGGATCTGCAGAGGCNAGGC
TGCTTGGCTCCCATCACNGGAGGTTTGCTTNNCAACCCAGAAGGAGCTTTCAAACAAGCC
TAGATATTCCTGCCTGGCCTGCTGCCATTCTCCAAGAAGGCAAGTAGGCACAATAAATTA
GACTGGACGGTAACAGTTCACATGTTGCCCTTTAAGAAGTGTTGATATTTATGGCAAGA
GGTTTGTGTTGTACCTGCCC

Sequence 713

CGAGGTAATCAGGATCTGCAGAGGCCAGGCTGCTTGGCTCCCATCACAGGAGGTTTGCTA
GGCAACCCAGAAGGAGCTTTCAAACAAGCCTAGATATTCCTGCCTGGCCTGCTGCCATTCT
TCCAAGAAGGCAAGTAGGCACAATAAATAAGAACTGGACGGTAACAGTTCACATGTTGCC
CTTTAAGAAGTGTTGATATTTATGGCAAGAGGTTTGTGTTGTACCTGCCCCG

Sequence 714

CCGAATTGGAGCTTTTCGCGNTGGCGNCCGCCGGCAGGTAATGTATGTATGTTGGTAAAA
TGTTGTGAAATTTAATGAGGACTATTTNTTGCATAAGACCTTCCGGACAGAATCTATCT
CTGAAAAAGAATTCCCACTCCTAAAATAGAGGTCTGTGAGCAACAGATGTGGTAAATGAC
CCTTGTTCAACTGAACCAAGAATATATTGTGATCTGTATGAGGCACAATTCAGAAGAGAG
GGGAGGTGGCTACAGCACAGCCTCAGTGTTGAGTTTGGTTGTGGGGTTTAAACATATTTA
TTTATTTTCATAAAGTTTCTCTCATAAGGCACAATGCAAAATGAGCTTTTAATTAATCAATC
TAATGTTTCAGAGGATGGTCTTCATGCTGTTTATAAAACAATTTACATTTTTATTTGTAG

[illegible]

Table 1

TGATCCCATCACCTTCACAGCCCCAGCCTCTGCTCCAGTCCCTCCCCAGCGAAAAGGGCC
GCCCATGCCATCCTGCTTGCTTGGTGATTTGCTTTGTGGTCATGGACTCAGTTGGACATC
ATTATTTTATTAACCGTGTGGTAGGTTTTAACTCAGTTATCCTGGATATCCAAAGGTTT
GTGGTCCATCTTTAGGCTTCCGTTTGTCTTTGTACCTCGGCGnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnNGAATTNTNATATCAAAGCTTATTCNATACCGTCNAACCTTTN
ANGGGGGGGG
Sequence 724
GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGCAGTTAGAGCTTCAATCTCC
AGTGTGATGGTATTAGGGTAGATCTTCAATCTCCAGTGTGATGGTATCAGGGTTAGAGC
TTCAGCCTCCAGTGTGATGGTATCAGGGTTAGAGCTTCCAGCTCCAGTGTGATGGTATCG
GGGTTAGATCTTCAATCCCCAGTGGTGGTGGTTAGAGCTTCAATCTCCAGTGTGATGGTA
TTGGGGTTAGAGCTTCAATCTCCAGTCTGATGGTGGTTCGGGATGGGGCTTTTAAAGATG
TAATTAGGGTTTAAAGATCATAAGGGGACCTGGTCTGATGGGGATTAAGTAGGCTTATAT
TGAAAGAAGACACAAGAGGG
Sequence 725
AGGTACTTTTTTTTTTTTTTTCACGTGGTCCCAGCTTGAGTTTACTGAGCCTCCTCCAGG
CTCAGATATGTGCTTGCTTGAGAGAACTGNTTCCAAAGGCCAAGCAGCCCTTGCTTTGG
AGAGCTGCTTTTTGTAACCTACAATAGTGTTCCTCCAGAGTGCATNCCATGAAAATATTAG
TTCTTTCAACATGCTGAACAATGAAAGAATCCATGGTCAAATCCTGAGAACNTATTGTCC
CTNTTTTAGAGATTTCATAAGGTACCTGCCCC
Sequence 726
AGCTCCCCCGCGGTGGCGGCCCGAGGTACAGAACTCCAAAAGAAAATCAGGCCTCATTGC
CAAAGCTCAGGGATAAGTCTAAACAGAAAGGCATTTATACAGCAACAAGAAAGTTACTGG
GGGCTGGGGATGAGGGAGGGCTGGGGTAGGAGGATACTAAAATATTTCTGAGGTGCCCA
ACTGCTTGTCTTAGAAGAGGCTAAACTGAGCCAAGCGTCTCTGTTTGTCTCCTCCACCCC
CTCCTCTACAGCTTACAATGTTCTCTAGCAGAAGCAAAAACAGGGTCACTGCCATCATA
GATAAAAGGATG
Sequence 727
AGGTACACGTTTTATATCAATATTTTATCAAGCAAAAAGTTGAAGCCAACACCCCAAAGCT
GCCAGATATGGAGAACCCAGTGACAATTTTGAATTAACCTGAGTGACCTCTTTCTTTCA
AAGTTGCTAAATTTGTTTACAGATTGCTTCTGTGGGATGTAAATAACAGAGTATATATGA
CCTTTTTAAAAAAATTTCTTTCTTTCTGTGTTCTAAGCAACTGGAACTAAAACTGCC
CTGGCCTATCATAAGGGAGAAAGATGGGAGTCTTTTGTGTCCATCTTGAATGTAATTCAC
ATTGTCCATGAGTGCTGATCTAACCCCATATGCCCTCTGCCCCGACTGCCCTTATGAAATAT
GGTAATTTAATGCTTAAACAACTGTTTCATTTGTGTACCTGCCCCGGG
Sequence 728
CGAGGTACCAGATCAAAACCTGGGAACCTCGTATTTGTCTTTTCTCTCTGCCAGGAATA
TCGTCTCTCCATTTGCCCAATGAGCCCCACCTNCTCAACATTTTACCTNTGTGGAAAT
CCCTTCCTTCCAGAAGCCTCCACTCGCTTTNTGCCAAGGAGCTTCTGCGGCGCCCTGCAC
GCACCTTTACAGATGCAGGTGGCTGTTTCTGTGTCTGACTGCAAGCTCCCCCGCGGTAC
CTGCCCCGGGCGGC
Sequence 729
AGGTACTCCACAAGCTTGCCCTGCCATGGGCTGTCTGGGATGTCCACGCAGCCACAGTCCCT
TCCTTCCTGTGTGGAATCGCCTCAGTAGCAGGCCTCTTTGAGGGACCCCTGCTTCCCAAC
TGGAGAAAATTACGACTGACCATTCAACAGAAACGAGAAGAACCTGACTGTTTACACAGG
CCTGTGGGTGAAATGTGCCCCGTATGACGGGAGCAGTGAAGTGCCTGATGTACCTGCCCC
Sequence 730
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGATCCAAGTGTTC
ATTTAATCAAATACCATGCAAACTATTAAGAGCTCCCTCTGACTTTAACAGCCGATTTC
CAGAGAAAAGGGCAACTCGCTACTAAAAGATCTTAATAATACAGGGCCTGGAGAGTACC
TGCCCC
Sequence 731
ATTGGAGCTCCCCGCGGTGGCGGCCGAACTTTATAATCTTTTAACTAAATGTAATTGTC
ACCATAATCTTATAGACAAAGCATTGAGGTTTATTGAGCTAATGCTGAAGGTAGTAAGTG
GAGGAGCCAGGATGAGGTCAGAACTCTGAGATTTTAAACATGCCTATGCTGTCACTTCTTA
CACTTTAGAATACCTCCATGCTCATGTGGACACCTAGGAACAAATGAATATTTCTATTCT

TCTCCAGAAATTTTAAACATTAAACATGTTAACTGTATTTTGTTTACCATAAAGCCT
 TCCNAGGAGGAACAAGCACTAAACACAGTCTCTGGCTTAAGGATTTTGGATGAACATATT
 TCAAAGCCATCTGCTTCNCAGCAATTATAATCCATACCCCTTTTCCTTTTGGCCACT
 TATTACCAAGAATCTNCANTAGTTCCTCGGGCCGCTNTANAACTNANTGGGATCCCC
 CGG

NCTATAGGGCGCAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGAGA
 TCCCTCTTGTTGAGTAGCTGCAGAGACGGCAGATGGAAAATATGCTCAGAAGTTGTTAA
 TGACCTTTTTGAAGATTATCCAATGCTCTTCGTCCAGTGGAAGATACAGATAAAGTCCT
 GAATGTGACCCCTGCAGATTACGCTCTCTCAGATTAAGGATATGGATGAAAGAAACCAAT
 TCTGACTGCTTATTGTGGATCCGCCAAATCTGGCACGATGCCTATCTACGTGGGACCG
 AGATGACTACCT

AGGTACCCCAAGAAGTAAACTTAGCAACCTCATAATTCTAGGCACCTCTCTCAGGTAATC
TCAGCTGGCTTCTCTAACACCTCTGGTTCTCCCCCTACCAGCATGAGGACATGAACAGC
CATGGATGGTGTTCTGCAAATGTTATCTCAGATAGTCTCTGGACAGGACCTGCGAGCAGA
CTTGCTCAGGGCTAGAAAGTCTTCCCTGGACAAATTCAGATCTCTAGCTAGCTAAGAC
AATCGCCGATTTTCTGTACCTGCCCG

CTACTTAGGCGCAATTGGAGCTCCCCGCGGTGGCGCCGCCCGGCAGGTACCTTATACA
ACGATGCTATAAATATTTGATGCATAATCAACAGTAATCAGTGGTGTTTATCTAACT
AACTGATAATCTACAGATTGCAGTGCATTATGATTTCAATGGAAATTAATCTAATTTCC
ACACTTAATTGTGAGAAATAGCTATAAACAGATTGTCAAGAGGAGCCTTTTAGTGCCAAATG
CTTTACTTGAGGAAAAAAATTTCTTTTGGGCAAAACCATCTTTATTCTATTGCAGAATACA
ACGATTCTCAAAGTAGCTTAACAACCCCAACTCCGTGGGTAAAGTGTGGCGGCACACGC
CTGTAATCCCAGCTACTTGGGAGGCTGAAGAGGGAAGGCTGCTTGGGGCCAGGGAGTTTG
AAACCAGCCTAGACAACATAACAAGAGTCTGTGCGCAAAAA

CTACTTAGGGCATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTCTAACCTG
GGCGACACGAGTGGGACCCTGTCTCAAAAAAATAATAATAAAGAAAGAAAGAAAT
GATCTCTCCTCATAGTTTGTGTGAGGAAAAGAAGTGATAAACTGACCTAATTGAACTT
CACCTTTTGCTCAGTGACAGATAAAGCTTTCCTTGATAGCATACATTGGCTCAGTGCCAG
TAGTACCT

Sequence 155
GCCTAATTGGAGCTCCCGCGGTTGGCGGCCGCCCGGACAGGTACCACCATCCTGTCAATAAT
TCTTTTTTTTGGCCAGGGGGAGACAAGGGTCTCACTCTCTTGGCCAGCATAAAGTCCTTT
TTAAAACTGTAAATAGTTTATACATTTGAGCATTATTATTATAAGCTTTTGTTCCTTAC
CTCAGAAGAATATATTTTCAAATGATAGACTTCTGGGACTTTTGGTACCT

sequence 707
TATAGGCGGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATNNNTCAAACATACNAC
NTAATGNGGCGCATGANCACATACTTTGCTGATANCNGACNAATGACTGAAGATGANTGGT
GNAACCANGGCATNAAAAATGAATCTATTCAATGACATGACAACAGNTCTCATTTCAAAAA
TATTGCCNTACCTTTCCATAGCCCCCTTTACCAAGTNCCTGCCNGnnnnnnnnnnnnnnnnnn

TTG
GCGTAATCATGGTCATTAAGNCTGTTTCCTGTGGTGAAAATTGTTATCCCGCTCACAAATT
TCCACAGAACATACGGANCCGGGGAGCATTAAAGTGTAAGCCTGGGGGT

Sequence 750
CCGCGGTGGCGGCCCGAGGGTACCACCCATGTGGAGGAGACTGCAAGGAAGCTGTTATTC
AAAGTAGAACAGTCAGCCTTGTGCTTGAGTCCTGCTTTATGCTTGCGTGTTCATAACAA
AACACAAAGGCAAGTCTTCATATCAGCACTTAGTCTTGATTCAAGTAGCTGACTACTGTA
CCTGCCCCG

Sequence 759
ATAGGGCGCAATTGAGACTCCCCGCGGTGGCGGCCCGCCGGCAGGTACTTGAAAGAATT
GACCCAGCTGAATTGGAAATGTGGGAAGGGGATGGGAAGAGGCTGCTCCACCTGAGAT
CTGGCTCCAGGACTTACAGCAAGGGGAACTTGGGCAAGTTACAGACTGCTATGCCTCAGT

Table 1

TTCTTTTAGCAAAACAGAATCATCCCATAACTATAAGGTCGATGGTATCAGCGGGTCCC
CAAACCTGACTGCACATCTGAGTCATGTTAAACAAACACATTCCAGGCCCCACCTGAGCCCT
CTGAATCAGAATCCCTGTAAGGAGGACGATGAACCTGAATTTGCACTGACTTTCCAGCT
GTTTCTTACTCTGATCAACTTGGGGATAGGGACCCATTGAGCTGCATCACATCATTCCA
AAGCCAAAACACAACAGCAGGACAAGAATATTTCAAGGCAGTCTCTAAAGCAGAGGAGA
AACTGTTGAGGGAACCTAGAAAGTAAAGGAGATCTGGCTTGGCTGGGCTCCATTGAAC
Sequence 740

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACTTTTTTTTTTTTTTTT
TTTTTNGGGACCAAGTTTGGCTTACNTGAGAAGTGAAGGTTGGTTCAAAATACCTACTG
TTTTACCACCCTAACAGATTAAAAGAAAAAGCCATATAATTACCTCAAAAGATGCACA
GATCACTCTGGGGTTGGGGGAAGGGGAGGACTGGGAACAGAGAAGGTGCATTTCATGAA
AACAAAGACTTGGGTTTTTAAATTTGCCTTTATTTTATTTTTTATTTTAGAGACAGG
GTCTTATTAGGATGCCCAGGCTGGGGCTTTCTTTCTTGAAGTCATTTTTTTTCAAAC
AATTCTATATGATAATCAACAGGGATGAACATAATGAANGGCNTNTAAAAGAGGNGGTCC
AGGTAAAAATGATTCAAGNGAAATNCCTAAATCTGGGNGNCATGGTTTACCGGGGACCA
GAAAAACAAAGGGGGGGTCTTTTACTGNTGGTAAAAAGTTANTCTNTACCTGGTGGATA
AAAATTTAAANANCAAGCCCCCAAAAGGGGAAATCCCTACCAATGCCAATNCCNTTG
NCTTTTNAAGGAATNNGNCTTNAACTTTTTTTTTT
Sequence 741

CCCGCCGGCAGGTACGCCCTAGCTCCAGCTTCNNTGGGAGACTGTGCATCTCCTGGCTN
NACTAACATNACCTTCTTCTGACCTTCCAGCCTAGAGATGATGACTCTGCCAGCCTAGAT
GGGCTCTGGGTTGCTCCTATTCTGTTTGTGAGATTCCCATTATGCTGTCAACCACT
CCCCAGCCTAAGCCCTCTCTATTTTAAATCTCAAGTGGATTATGTTCTGATTAGTCCC
TGACTGATATACCACTCTCCTCATGATCTCTGATTAGTTTTCTGTTAGGTTGTTGCAGT
AAAAAAAAAAAAAAAAAAAAANNGGTCCCTCGGCCGCTCTAGAATAAGTGGATCCCC
NGGG
Sequence 742

AATANCCCCGAATTGGAGCTTTNCGCGGTGGCGGCCGAGGTACCTTCATGCTCTAAATCAT
NATGATCTACTATCTGAAAAGGAAACGACAAATTTTNAACAAAAGAATTTCAACACAGA
TAGGCAGTTGATAGCATGAGGCACTAACATTAAACCAAGTCTTCAATGGCACTTGGAG
TCCCAGGGCCTGCCCC
Sequence 743

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACTGTATCTCCC
ACTAGGATGTCAACTCCGTGAAAGTAGGAACCTACTGGTCTTGTTCATGGCCCTATTCCC
AGCTCCTAGAATACAGCCTGGCATGTTGTAGGTGCTCAATAAAATCCTTGTGAAATGACT
GACTGAATGAAACCTGGCCAAGGTCTAAGCATCACTTCAATGGGATTACCTGGAATG
GCACCCCCCTCCCCCGGTACCT
Sequence 744

CCGCGGTGGCGGCCCGCCCGGGCAGGTACTGTATCTCCCACTAGGATGTCAACTCCGTGAA
AGTAGGAACCTACTGGTCTTGTTCATGGCCCTATTCCCAGCTCCTAGAATACAGCCTGGC
ATGTTGTAGGTGCTCAATAAAATCCTTGTGAATGACTGCTGAATGGAAACCTGGCCAA
GGTCTAAGCATCACTTCAATGGATTACCTGGAAATGGCACCCCCCTCCCCCGGTACCT
T
Sequence 745

GCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACAACCTGATTACCTGAAA
CAGCAGCNNAGNCATGCAGAGGAGGATCAGCAGCAAGAAGGGGTGAGCCATGAGTTCCTG
AAGCCAGGAGGGCTCCATTCTCTCAGAGGTCCTGAGCTCTGGAAAGCCTGAGAGAATC
CCCGCGTCCT
Sequence 746

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTCTCCCACTCTTCTCTGACAA
AGCAGNTGAGGGACTTTCTCTGCCAAATGAGAGAGTAAACTTAAAAAGAGACAAGGTG
GGATATTGCAAACAAGAGATACAACACAGGAGGGAGCCGAAGAGAATCCCTTGATTGAG
GTGAAGCAGCTGTACCTGCCCC
Sequence 747

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTAGGCTCTCCAGGGAATGC
CATCAGTAAAGGCAGCCTGTTCTGATGTCATGACTATAGGGAATGTGATGCCTTATTGA

Table 1

ATTAGGCGCTGTTTGTCCACTCTTTATCTTTTTCTCCAGAACTGAGGCTAGTTGATC
TTCCCTTGAAAGTTCAGTCCCCCTGAGTAGCTAAGCCCAATCCTGTCTGTACCTGCCCG
Sequence 748
NATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCTAACCTGGGCGACAGAGTGGGACCC
TGTCTCAAAAAATAAATAAAATAAAAGAAAGAAAAGAAATGATCTCTCCTCATAGTTG
TGTGTAGGAAAAGAGTGATAAACTGACCTAATTGAACCTCACCTTTTGCTCAGTGACA
GATAAAGCTTTCCTTGATAGCATACATTGGCTCAGTGCCAGTAGTACCTGCCCG
Sequence 749
ANGGCCGAATTGGAGCTTNCCGCGGTGGCGGCNCGCCCGGCAGGTACAGTAGTCAGCTAC
TTGGATATCAAGACTAAGTGCTGATATGAATACTTGCCTTTGTGTTTTGTATGAAACAC
GCAAGCATAAAGCAGGACTCAAGCACAAGGCTGACTGTTCTACTTTGAATAACAGTTCTT
TGCAGTCTCCTCCACATGGGTGGTACCT
Sequence 750
GCTNCCCGCGGTGGCGGCCCGCCGGGCGNCGTACCCACCGTTTCATCTGTAACATGGCTGTA
ATAATGGCACCTACTCGTTGCTGTTAGCATTGAAGGAGCCAACGTATGCAAGCCAATCAC
TTAACAATGTCCATTGTTCTGCTTGTCTTTCTTTGCTTATACTTCCTGACAACAAGCA
GAAACCTTAGAAGAGTGGTCTGTTCACTTATAGGAAGGCTAAGTCAGCATTAGGTGTCTT
CCATCTTAAAGCACACAANACAGACTGGGTAGAGCAGCANCCTCACTGATCGCCACTCTA
ATAGCTCTCTGGCTAAGTTTCTCA
Sequence 751
GCGGTGGCTTTGCCCCGGGCGAGGTACTCGGGCCTAGAAATTATTTAANNTGGCGACTGAT
ACGTCTCATGGTGAACCTGTTTNTCTAAGGCACTCCCACTTATAGTAGGAGCTCAGCTG
ATCCACGCGGACAAGTTAGGTGAGGAGGGCTGACATATTCTTGANTCACTCTTGATCA
ATCCCTGACTTCAGGCCCTGCTGGGTCTTCTTGGTACCT
Sequence 752
CCGCGGTGGCGGCCCGAGGTACAATATAGGCAGACAGTTTGCCTTCAGAAATTCAGAAAT
GCAGCTTTTGAGGGAGGTGAGCATCATTGGTCTCAGCTACTAGAGTTGAAGATGATTGAG
CCACTTTTATCCAGCCACTCCATTTCTAGCATACACTAAGAGAAGTGATATTTAAAGA
GGCCATTTTCTGCGAGGATGTTTATAAATAGTTCTGGCCCCCGGTACCTGCCCGGGCG
GCCGCTCG
Sequence 753
GGCGAATTGGAGNTCCCCGCGGTGGCGGCCCGCCGGCAGGTACTGAAATACTTAAGAAA
TACTTTTCACAAGTGNC AATAGATTTATGTGTTATGGACTCATTGCAGANGGCTGAGGAG
CAGTAAAGGAGGGAAGGTTCAAGAAAGCCTTCAAAAAGGAAATAACACTTTACCAGAGCC
CTGCTCACCAGTAAGAGCAAAAATTTGCAACTTTGATATTTAAGAAATGGAGGGTTACT
GCTAGTCGTAGNGGTGGGTGAAGTAATTCTATATGACTAAAGCATCAAACTCTAATAAGA
GCATTATAAAAAGAGGCTAGAAAATTGGACAGGCAACATTCAACATATCTTATAATTAAG
GATTTGGTAGTNTTATGTTAGAGGTGATAGACACATAGGAGAGTTTTTAAATGTGGGAA
GTAAAATTGGTCAAGACTTGACTTTTTAGAACAGTAATAAAGGAGTGCCAGNTATTTTTT
GGGAATTCATTTATGGTGACCTTTTAA
Sequence 754
CCGCGGTGGCGGCCCGCCCGGGCAGGTACCACAGGGAAGAATACCTCAGTTATTCACCTT
TTGTTTAAATGTTTTGGAATAACACAGACACAGCAATTATGAAGTTTTCTCTGCTCTAC
TTAGATGAACAGATTCTGTTAACTAAAATGAAGGCAATGAATGAAGAGAGTTCTATGTT
ATATATCTGAGAGCAGGGTCTCTATTTTTGATACACTGACCATTGTTTCTCTGTAAAAAA
TACAATTAATACTTCATCCTCTCCGTAACCTCAGTTTTAGCTGAATACTATTTTTTAGTCC
ATTGTATATGGCAGACTTTATGTTAGGCACGAGGGACATAAAGATTCATTCTTCTCA
CGCCAGTAAATANTTGAAGTTGGGAATCTTCTATGTTCCGAGGCACTGAGTTCAAGTGC
TGAAGGTTTAAACATGAGCAACACAGACAGTTTTGCCTTNTCTGCAGGGTACCTCGGCC
CGCTCTAGAACTAGTGGGATC
Sequence 755
CGAGGTACTGTAATTTTGGGGAGCAAGCTAACACATTTGACTTGGCGCTGAGCTCTTAAC
TAAGCAATACCTCAGTATGCTCCTTCGGGAAAAATTAAGGTTTCAAGTAGTCAAACTTTT
TGGAAATGCTGGGCCATTATGCACAGAGAAGGCCGCAGTAAGGAACATTTTAAATTTGAA
CAGAGAACATCCAAATCTAATTCATCTTGAATCCATTTGCTATGGAATGTACCTGCCCG

Table 1

Sequence 756

GTAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAAGCAATGACGTGGGGAGAGAGCGC
NGAGGAAGGGAGAGATCCAGAAAGGTAGATTCTTCTGTGTAGGTGAGTGGATGAGATAAT
GAAGCAAGTTAATTTGGGCTCTGCTGACTTATTTATCTGTCCCGGGCACTTTTNTCTGTA
CCTGCCCG

Sequence 757

CGAGGTAAGTGGCGGCNCTCTTGATTCCAGTCTACTGGACTGCTTGTGCTTTGGGTATTT
GAGTATTTATGTGTTTCTTTTGGCTCCTGTTTGCATGGTCACTGGCTGTCATAGGGAATG
GTGATCGGCTTTTCCAGTTGCTCAGGNCACAAAAGAGTTGGCTGGTGTGATGGACAGCA
CATGGGATTTGGAGTTAGAAGGTCTCAAGTTAAAAACCTCAGGCCCCCTGCATTCTAGCT
GGGGGACCTCGGGCAGGTTGCTTGACCTCTCACCTGACTGGTTTGTGAACCTTGCAG
AGTGCTAGCAGCACCTGCCCCAGCGTGGGGGAGTGGTTTTGCAGATTAAGTGTGNTGTG
AATGCACCTTCTCGATGGAGGGCTCTANCAACATGGTTTCGTATCTGTATCTGTAC
TCACCTGTANGTNAAGGGGTTTTTACATTTGNNGCATCAAAAAGACCCCTA

Sequence 758

GCGGCCGAGGTACATGGTGGCTACCACATCCTGNTGTTTGTCTATACTGGGAGAATCAGG
CNTCCNAGTCATCTTGGCTGCCCTAGCTCTGAGCTTCAGGGGATATGACTCAGAAAT
GCTATGCTTTCTGGAATTTGGATATTTCAATTTTATTGTTCTTGGTAAATTCTCTTTTGA
CTTAGGAGAAGCTAACTATTTGGAAAGGTCTCTCAGAACTCTAATTACAAATATATGTA
CCTGCCCGGGCGGCCGCTCG

Sequence 759

CGNCCGAGGNACTGGNTTGACANTGTGTTTAAAGTCAAAAGATTAGGCTTGAGATCTCTT
TCTAGTGNGATGGTTTTACAAGTATATACCGTATGTTAATGNTTAAAAATTTACACCCC
AAAAATGTGCAGNATACCAGATGTTAATTATATCTCATAAAGCTATTAATTTTATCTC
AAAATTATAGCTTTATTGCATTTAGGGCATTATCCAATTTTGAATCTAGTCCAGTTATCA
TAGCTTAATGCAGTATTATGAAAATAATGCCTATAAAGGGCCAGTTCTCAAACACCCCTT
GGAACCAATTTTGCATCTATATTAGNNACCTTGGGCTGCNATAATGAAGTACCCTCGGC
CCGCTCTAGAAGTAGNNGGGATCCCCCGGGCTGCAAGGGAATTCNATATCAAGCTTAA
TCGATACCCGNCGACCCTCGAGGGGGG

Sequence 760

CGCCCCGGGCAGGTACTTGTAGCAGTCCACAAAGAGAACAGCCAGAACATTCTCTATGCCA
CTGCCTGCTTCTGGGTGAATCCCAGGTGTGAGTAATGAGGCTCACATGAGTGGGTATATC
ACTAACACGGCTTAGGAGCCCCATCTCNAGTCATTATTTTGTGTTGACAACCATGAGCTTC
CAGGATCCCGACAAGGCACATGGCAAATTACAGGAGTCCCTCACACTAAGAGAAGCCCTAA
GCTATGGCCAGCACAGGTATTTATAGTTCCCTCCAGTCCCTTCGCAGTTTACCAGTGGGT
CATTTTACCATAAGCAGTGTTCCTAGTAACATAGCTGACATTCTGCCTGTATGTTTT
CACGGGAACAGAGCTGATAGCTGGGTAAACTGAATCCAAGCCCA

Sequence 761

TGGCGGCCCGCCCGGGCAGGTACACTTTTTTGGCTTATGGGTATCTTAGTTTAACTTTT
CTNTTGTAGNGAACTGTGTCATTTCAAAGCCTGAAGACATTGTGATGACTGCTGCCTCC
ATAATGGCTACATTCTAGGGGCTTTGCCCTGAATCGAATTAATACTCAAAAAGCAAACAG
TACCT

Sequence 762

CTCCTATTTGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGAGCCACACCAAAA
TCTGGGAGAAGACTATTTAGGAAAGGAGGAGGAAATTTGAAGACCTGGGGCTAGAATGA
GCTCAACATATTCTAAGATCGGCAAGTTTGTGTTGGCTGGAAAAGATGAGTAAACAGA
GAAACCTGANATAA/GATGAGGTACGGAGAAATGCATGGGTACAGACCAGTATAACCTTG
CAGGTCATGGTA/AGGCATCTGGACTTTATACTGAGTACCTGCCCG

Sequence 763

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTT
TTTTTTGGGTTTATTTGCTTAGGATAATGGCCTCCAGCTGCATCTATGTTGCTGGAAAGG
ACATGATTTTGTTCCTTTTATGGCCTTGTAAATGGTTCATGGTGTATATGCACCACATTT
TCTTCATCCATTCCAACGTTGATGGACATCTAGGTTGATTCCACGTCTTCACTATTGTGA
ATAGTGTTCANTGAACATATGAGTGCATGTGTCTTTCAATAGAACTTTCTTTTTTCTNT
TTTGGGATATACCCCCCANTAAATAANAATTGCTGGGGTCNAAATGGGTATTATCATTC
TCTTTTATAGTAAACCAACTTAAAAAGATTTTAAATCAAG

Table 1

Sequence 764

TTAGGAATTTNTATATCAAAGCCTTATCGAAACCCGCCNACCTCNAAGGGGGGGGGCCCGG
GANCCAACCTTTTGGTCCCCCTTAANGGAGGGGGTAAAATGCGCCCCCTGGGCGGAAAAAC
AAANGGCAANAAACNNGGNTCCCCCGGGGGANAAAAAGGGNATACCCCGCACANATTCCC
CACCAAAAANTANCCCGGCCCGGGGAGCAANAAAAAGGGGAAAAAGCCCGGGGGGGGGC
CCTAAATGAAGTGAAGCCTAACTTCACAATTAATTGCGGTTTTCGGCTTCACTNGCCCCG
CTTCCAAGTCCGGGGAAAACCCTGTCGNGCCAAGCTGNATTAATGAAATCGGGCCCCAA

Sequence 765

CCGGCAGGTACATTCAAATTTTGTATCCTCTTCAAGAAAGTNACCTNNGGTAGANTNCA
TATATATCCCAACATNNTAGGAACATATAAATGCATACTTTTTTGGTGTGATCAGAGAT
GGGTAACCTCTTATTACTTGTGGGTAGATAGTTTTGGAAATAGCCTGGAGTCATTGAGAG
CCAATCCTTATCAACAAAATGGCATAAATGGACAGGAATGGGTTCTTCTTCACTTTAGAG
ATAGCTCTGAAGACATGTCTCAANTGGGATNAGTTCAGNTGCATATATGAATAGCAGTC

Sequence 766

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGGGCAGGTACGCGGGGGGATTCA
GAGTGAGAAGGCATAAAGGAGAATCCCCAGCTGACTTGTGCAGTGGTTAATTGAAATTAT
TCAGGCAAGAGATGATGGTGTCTTGGACCAGGGGATGAGGAAGGCTACAAAATGTGTCTA
CCTNATTCTGTGAGGAGAACGTGTTCCCTGGTTTTAGATACTGTGAAGATGGATCAGGAG
AGAGTTTATCTAGACTGTTGGGGAAAGGTGTTGCGATTCTTCAGCTACACAGGATTGAA
AGGAGACATTTCTGAAGGGGAAAAAGGAANTGAAAAAAAAAATNNNNNNNNNNANAAAA
GTNCC

Sequence 767

TCGCCACCCATNTGTGAGGCACAACTGTNGNNGNCTNCATTTACAAATGCAGAACTT
AGGACCATGATAGATGAATGATTTGTC

Sequence 768

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTACATGGGGACCGCCAGG
GGCCTCNAGAATCGGTATCCTGAGTCCTTGAAGAGCAGTAGAGGTTGTTTCATTAAGT
GCAAAACACATTGTTCTTAATTTGAAACTGTGGGCAGAAACAGAAGCCCGAGACTAATTT
TTCCATTT

Sequence 769

TTAGGGCNAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGCTTAATGGCAAAAGAGA
ATCTTAATCCCTAAGAGCTTTTTCTAATTGATGGACATCATTTCCAATTGAACAAATTG
GAATTTATTAGTGGTGACTGTGGCTTTGAATCTGAGCTAGTTTATTCTTGCAGTCACAGA
GAGTGTCTTATAGAAAAAAAAGGGAAAAAGCTCAGTTCTGCTGAATATAATCAATATA
CACAAATCAATTGATAATTCACAACTACCTCCTTTGCCTTCTTGCACACTCTTCTGCCAC
TCAGAAACATCCATACTTACTCTTCAGGATGGGTTTTTGGCCTGAATTATCCAGATGG
GCTGTTTCAACTTTTTTCAGCCATACCTTAAAGTTGAAAAGGGATGGCCCTAATTTCCAC
CTCTAATTCCTTCCAATTTCTGGGTTTGAAGCAAGACTNGAGAAGTTGGG

Sequence 770

TTAGGGCGAATTGGAGCTCNC CGGTGGCGGCCCGCCCGGGCAGGTACCTGATTTCTGA
CATTGCTATTTATATGATGCCACTTAACAGGTGCTTGGAGGAACTCCTGACTCATTGCT
TACCTCTCAGGGCTATGTAAAAACACACAGAATTTATTAACACATCACAAAGTGGTACC
T

Sequence 771

TNCTATAGGGCGC/ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCCTGCGCCAATCAT
CACAGCCTGGT/STATCAAGTGTGTGCCAACTGCCTGCGCTAACAAACCAATGCAAAATG
TCATACGTCTCT/CTCACTAGCAGCATAGTTGCTAGAGAGACACGTGTGAGCCACACCTCA
AAGACAAGCCT/ CATCATCTTTTCTGGAGATAGCTGACTAGCAATCAGATGTTCAAATA
AAGCTACTTTCTTGTACCTGCCCCG

Sequence 772

CCGGGCAGGTACTGNTTGTGATCCAGCTACTGAGGTCTTGAACCGAACAGACCTGGGAAG
NGTCTCANAGCTGTCTCTCAGGCTCTGAGAGAAAGTAGCCAACACTACAGTAGACAGAGA
GAGACAGAGATCAAGACAGGAGACAGAGACAGCATAAGACAAAAATCTTTATGAAATTG
CCAAGTCCTCAAGACAATTCTAGNTAACNTCTTTTCAGCNAAANTGGNTGGAACCCAGGG
CTTTTAACCTCCAAAGGTNNCACAAANNAATNAAAATAAATNANNAANAATNGCTTCN
CTNNGGGCGCGNCTTCTTATGTAAACNTATNGNGGGGNTATACCCNCCCGTNGGCCNTG

[illegible]

Table 1

Sequence 789

AGGTACTTATATGCTAGGAGCCTGGGACATACTTTTATTATTTTCATAATTTTACATCTTT
AAATCTTAAAGAAACATCGGTAATATCTGCATGAATCAGAATTCAAACGCAGCCTTGCTT
TCACAATCATAGATTTTCAGGATCAGAAATTTATTCTGTCAAGAAGAAGGATGACCAAAA
ATGCCGGACGCGTGGATCGACTCAAGACCTGCCGGGCGGCCCGCCAC

Sequence 790

GGGCAGGTGTCTTAGGTAGGATCTTGCTACTCTGTGTGCACTTATCTTGGGAGTCAGAGT
AAGTTCAATTTGTCTACTTTTATTCTGTGGTAGTTTTCTTGATTTTTTACACTACGTCCT
GTGTGATTTTCAATTTTCAATTGTAATTTAGTCTTTTTGTTTATTGGGTTTTCTTCTTTTCA
ATTGGCTTCATCTAAGGAACAATAATGTCAATTGTTTCATTTCAGAACCAAGAAAATATAGA
ACACCTAGAAAATCAATCAACCAACAAACAAATGAATAGTAGAAAATCAAACACACATG
TATTGCCTCTTGTCTTCTGCTGNAATTTTTCCCTC

Sequence 791

AGGTACACTTTTTACACCATAACTGCCATGTGGTGATAAGCTAAGTCATCTCATTCCTTC
TCCCTTTCTCTGTGCCTGTCTCCATGGTCATTCCGGTCTATCATCTGTTAACAGGTAGGA
GAAGGCATGTTTGCATTTGAGAATGATGGTACTATAAGCAGTCAGTTGCTTATACTGGT
CTATGAAGCATCTAGGACTGTCCACAAACAAGAGAAGGAAAAAAGCCAAATGGAGCGG
ACGCGTGGGTGCACTCAAGCACCTGCCCGCGCnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnTGTTCCCTTTTAGTGAGGGGTAAATTGCGCGCTTGGCCGTA

Sequence 792

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAGTTTACT
ACCCAAATTGATATTACTACCTGAGCATTTTTTCAATTTCTTACATAATCTTCCAAAACAT
TCATTTTATCTACCACAAAATATTAAATTGAATAAAACATTTTTGCTGAATTTGTGGAGC
TGGGCTTTTAGACCGGTTTTAACATTTCAAGTGAATATGTAATGCAGCTCAAAAGCTTTG
TGCAAGTGGT

Sequence 793

AGGTACCCTCGGTTGCAAGCACAAAGCAAATGTGCCAGGGTGGTTGATGCAGCTGTGGTCA
CAGGTCTATCCAAAGAGCACTCGTCCACATCTTGGCAAGACTTCTCATCTGTTAATAAT
TTAAATCCTTTCTT

Sequence 794

CGAGCGGCCGCCCGGGCAGGTACATCATGCCTCCAGTTCTGGAGCTAACACAGATTTCTC
CAATTTTCACTGTTTTGCAGAGCTGGGGAGGTCCATCTGGTTTCACAATGCACATCATCC
CACCAGGCATTACATGCCCTACATCTGGACCGTCAGTGTGAATTTTTATCTTCAGTAT
TGACCCGTATTACCCCATAGCTCAATCCATTTCATTGAGAGAATGGCTCTTCTGGCAAAG
GGGCTCCTGGAACCTCAGGCCTGCGGATTGCTACAGTCATGGCTTCAGCAGACGTGGCGC
ACGGTCAGATGGCCTCAGGCTTCAGTCCATGACTTTGGAACAG

Sequence 795

AGGTACCCTCGGTTGCAAGCACAAAGCAAATGTGCCAGGGTGGTTGATGCAGCTGTGGTCA
CAGGTCTATCCAAAGAGCACTCATCCACATCTTGGCAAGACTTCTCATCTGTTAATAAT
TTAAATCCTTTCTT

Sequence 796

CCGCGGTGGCGGCCGCCCGGGCAGGTACAGGGCAATCAGAGGGTGAATGATACGCACACC
TGTGTATCTCCCATATTCTGCAACTTCTGTTTTTATTAGAAGGTAGAATAAGTTCCCAT
CTTGTCTTCTAAGCTTTCAGGTTCCAGGGTGACCTCGG

Sequence 797

CCCTTTTCAGCGGCCGCGGCCGGGCGAGGTACTTCCTTTTTTTTTTTTTTTTTTTCTTTTAGCT
ACCTGGGTATCTAGCTTGGGACCCTGTCTCTTCCCACTCCACTGTAGGGTAAGATNAAA
CTTTTCTAGGATTNTTATTAATGAAATTATATAGCATGGATACTTTTATATCTGGCTTNT
TTTGGTTAGCATAATATTTTGGAGTTTATCCACGTTGCTTGTATCATTAGTTTGGTCAT
TTTGCATTGGTAANCAGCATTTTCATTGGGTGAACATAATAAACTTTATTTTTCTGGTGA
TGGACATTTAAATTGGTTTNCGATTTGGATAACTGGAAATAAAAACTGCTATGAACACAT
ATGGTCAANTCTTTATGTGGGCAGATAAATGCTATTTTTTAAATTTAAGAAAACTAAAC
AACAGAAGTGAATTGANTAGCAAGTCACCCATATTTAAAGTTGGAATCATCTGAAAAGAT
TATATATCTTGGTTAAAACTAAAACT

Sequence 798

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTATCATCCATAATATCTTACTCTCTAATCCA

Table 1

CATAATGGAGTTGTGCCAGACTCCAACTGAACATAATATTTATATATACATATATTT
ATATATATACACACATACATAAACTATAAACCTGAATATCTTAGCATACAAAACCTTATCT
AACAACTAATAATTTAGGATTCTTTGAGAGGGAGGGGTTAGAAGAACTCTTCTTAGTC
TTTGAAATAGTNCTGACAGTAAGCAATAAACACATTATTAATTNCTGGGTTCTCATTTA
TTCAAGTGAAAGACAAATAAAATAAAAATTCACCTCTTGAGCCACTAGAAATTTTGAAT
CATAAAGGATTATTTGGGAAATGAGTAAGTCTTTAAGAACAATTTAGTGNTATCTAAAGT
AAAGTGGATTTTGGTAAGATACAGAGAAAAANTCTATGCATAAATNAATTCCTGNITCAT
TGAGCAACTATAATCGCTAAGGGGGGCTTTNTAAGNATCTCAGGAATGTTTTAAAATA
TTAATAGTGAATAAATTANATTGAGGATAGGGACCAATC

Sequence 799

AGGTACTCAAAAGGCATTTCCGCTTACAATTTGTAGAAACACAAAATGCGTTTTCCATAC
AGCAGTGCCATATAGTGACTGATTTTAACTTTCAATGTCCATCTTTCAAAGGAAGTAA
CACCAAGGTACTGGGTAGATATACGCAGGTGATCACAATCTTTATGTCTATTCTTGAT
CCCTTTTTTCTTTACTTCCCAAATTTGCCACATCTTTCTTCTACAGCTAATAGGATGGGC
TGCAATTAATTGGTAATGGTAAAGAGATTATGCTTACAAAAGAGGTGAATGTATCATATA
AGGAGCATAGGTTGGAATTTAAGAAACGTAACCAAACATATTGGAATTAATA

Sequence 800

CCGGGCAGGTACTACCCAAGGTCCTCTGTGACTCGCCGCCCACTACCCAAGTGAATGAGT
CTCCCCTAGAGCTTTGCTACTCAGAGGGGTCTGAGGACAACAGCATGGGCCAACACGTGC
ACTCGAGCTGCCTGGAGATCTTGTTCAAAGGCAGATTCTGAATGAGTAGGTCTGGGTTGG
AGCCTGAGAGTCTGTACCT

Sequence 801

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTGTAATAAAATTTAATGGAACAC
AGCCATGCCTGTTCAATTTACATATTGCATAACCCCTACCCCTAGAATTGAGCAGTTGCAA
CAGAGGCCATATGGCCTGACAAAGCCTAAAGTGTTTACCTATTGGGTTCTTTACACAAAA
TGTTTGCCCAACCCCGGATTATATCATGGACTCGACTTGTTTGGTTTCATATTATAGTC
TGAATATATTTTGGTAGCCTTAACAGTTCTACAGGGAGAGAATATACAAGTCAGGCTATT
CTAGGTTTTCTGTAGTTTACAGATTTTGTCTATTATAATCAGAT

Sequence 802

AGGTACCAGGACCTCTAACTCCCCCTGACACAGAGCAATTAGACTCCCATAACAATGGTA
TCAATTATACCACTCCATTGGAGGGACTTCTTTATGTGTACCCAGGATACATTGCTCA
ACTGCAGTTGCCCTGCAGTTTGATCCCAAGCATGGTTGAGTTACCATAAAAAAATTATGT
ACCTGCCCCG

Sequence 803

CCGGGCAGGTACCTGCTAAGTGCTGGACAGCCTTTCTCACATTTCTCCCAGCAATCCTA
GAGGCAGGCCTGGTTGCCCTTTGTGAAGCTCAGAGTGGTTAAGTAACTTGCTCAAAATCAC
AGAGCTACTAAGTGGTACCT

Sequence 804

CCGGGCAGGTCTTCCCAGGGATAGTTTTCCATTTGATTAAAGTTTTGTTCTTATGTTACT
TTTTACTGTTGTTTTTGCAGTTTACCTAATGCTAATAGGGTCTCAGGAAGTGTATTTGAT
GTTAAAGTGTTGTTTTTCCAGAAGATGACAGATAATTGGTGGTCTCCCCCTTTTCTCAGC
AACATAGTTTGTACAGCATACTGACTCAATTCTTAAGTCTGATTTGTGCAAAATTTTATC
GTACTTGAGAGTTACAAAGCAAGTGAGAACTTGAGGGATCAAGATCCTGGAGAGAAGGAA
ACCTTAAAAGGGTAAACCCAACATTTGGCTCTACTTTTCCCCCTTGAGGTAT

Sequence 805

CCGGGCAGGTACAAACCCCAAGTGATTATAGAAAAATCAATGTGGCAGCTACACTAGAGA
TGTCCAACCCCAAGGCTATGGGCCGTTGCTCCCTCTTTCCCCCAATCCCAATCCCGCGT
ACGCGGGGCCCTCTTTTCCGTGGCGCCTCGGAGGCGTTCAGCTGCTTCAAGATGAAGCTGA
ACATCTCCTTCCCAGCCACTGGCTGCCAGAACTCATTGAAGTGGACGATGAACGCAAC
TTCGTACCT

Sequence 806

AGGTACCCCTAAGTGGGAACCTACCAGGACATTCAAAGCAAGAGCAGTAAGTCTGAATG
TTCTGGGACAACCTGGGTGATATGCATGGATATGGGCTGTGGAGGCTGAGCATTTAATG
ATAACTTAGGGAAACGAGGCATGGCCATGGTGTAAGTCTCAAAATCCCAAGCCCTAATC
CAACCTTAAAATCCGAGTCTTCTAAAGGGCTGTTTAAACCATGAAAGGACCATAAAGAAAG
GCAATTCACAGAAAAATGAAGCCATGTGGCCAAGAAATATAAGAAAAACAGTAAAGCCCT

Table 1

TAATCTCAATAGCAATAGAGTGGATGCAAATGAATATAAT
Sequence 807
CTCTCCAGTCTTTGATTGTCCCGCAACAGTATTACAAACAAAAGGCATTAGGCAAAGCAT
GCTGAATTGATTGGAGTCCCTTGGTCAAAGGTATTATTGATTGACGGCAATCAGATCCAC
TCCCTCAGAAAGGATTGAGTAGGCCTNTTCTGTCCATCTGCAGAAGGTTCCCCAAAAGG
GGCAGAGGGCCGGGGCCCTGGTGGGAGGGTGCCATGGGAGTTAGGGTGACCCTGAACCAG
GAGTAGCAAG
Sequence 808
AGGTAAGTGAATTCTACCCTGGAAAAACAAAACCCAGGTGTCTCCTCAGCTTCAAAAACCTC
TCAGGGAATGAATCCCTGTGTCTACACCCAAGTATGTGGAATTTAAGAACCCTGCTGTGG
ACCTACCTATTTTCTTAGAAATATGCAGCTGAATATAACCATTTTTGGATATTTGAGATC
ATTATGTACCTGCCCCG
Sequence 809
AGGTACCAAATAATGGAGCTAGAATTCTATCAAAATAATGGAGCTAGAATTTCCATCAA
CATATAAAGTCCATATGTGAGCCTCATATAAGGCCAACTGTAAATCAGTCAAGGTTCTA
AGTCTTTCTCCAAGATCTGGAAAGAGTGATTGAGCATTCTGTTATTTTAAATTACGGACT
ATTTTTTCCATACAAGGAAGTTAACATCTAGAGCGATCATTCTCAAACTTTATTGTATA
CCAGAAATCATTTGGAGGATTTATTAAACACAAAGTGCTGGGCCTTACTCCTGAGTTTCT
AATTCTGTACACTCTGCCCCCATCCCGGGATGAGCT
Sequence 810
CCGGGCAGGTACAGGTATGGGGACCACAGGAACAGTTAAATTCATGGCATGGCTGGTCTA
CCACACAGTCCGGGGGAATCTTTAAATAGAGCCTGTCACTCTCTTGGCCCATCAATGGGA
TTTCTTCTCGAACTGCTGATTCTGTTACAGGTACCTCGTGCTCTAGAACTAGTGGGAT
CCCCCGGGCTTGCAGGGAATTCGATATTCAAAGCTTATTCGGATACCCGTCGACCCCTCG
AGGGGGGGGGCCCCGNTCCCCAGCTTTTTGGTTC
Sequence 811
CCGGGCAGGTACTTAAGAACTCTCCAGGTAAGGAGCATGGCTCTAATGGGAAATCCTTCA
GGTCCGGGTGAAAGAGGAAAAAAATGGTTACCAAGGATGAAGTGTAGCTCACTTAGGA
ACTGAGCTTTTCAAGTCCCATAGAGCTAAATGATAAAAGAATTTTTTTTTTAAAGAAAA
AAGGAAAAGAAAGAAAAGAAAGAAAGAAACCAAGGAATTCATTAATGTCTCAGAAAACA
AAGCAGTGATTCTTCTCATTACTTTTGAAGCAATGAGACCCCTACGCTCCCGCGTACCC
TCGGCCGCTCTAGAACTAGTGGGATCCCCCGGGCT
Sequence 812
AGGTAATTTATCTCTTATCCAGGACTGGATCAAATGATTTATGGCATTGTGCTGTTTTA
ATGTTCTCATCCACAGGGTCGATTCCAATAACTTGAAGCCCCAAGCCGCCCTAGAGGTTT
AGTTAACAGCCCAACCACACAGCCAACGTCAAGAATCTTCATCCCCAACAAAGGTTTTTN
CTGGCTGGTGATTAGGGAATTTGTTTTCAGAAGATTGTCCCTAATTAATGNCACCCC
TCNAGGTCATTNCATNGGAAATNGAAGAGGNGCATATACTCCCTTGGTTCATNCCCACCA
TTTGTGNAGCCANGGCCCAAGAAAGTT
Sequence 813
CGCGGNGGCGGCCGCCCGGGCAGGNACTNTTGCCNNGGGANGAAAAACCCCGACAGCAGC
AAACNGCAGAANCNNCAGACNGCAGGCTGCNGATGGNGAGAGGGAACNCCGCCCCANACC
CACNGCCACNGAACCNGGCGNGGGANACCAGNGGCCNNGGNGGANGACCANAGANGAGGA
GCCCGGGTNTTCTGGCCAGGGGGCNGCNCGCACCNCGGCCGCNCNAGAACNAGAGGACCC
CCCCGGGCGCAGGAANNCGANANCAAGCANNANCGAAACCGNCGACCNCGAGGGGGG
Sequence 814
GCATTGGAGCTCCACTTTTGGTGGCGGCCCGCCCGGCAGGTAATCATCAGATGGAATGTT
TTACCCCGCCGAGGTTTTAGTCATGATGTGCTGAGCTCTCTGCGTCTGACGTGACTGACT
GGTAGCTGGGCGTTGGCGTGACCTTCTTCCCTCTAGGATCACATCATGGAGAATTCCA
CCTATGGGAAAATTAATGATTGACATGCCCCGTGGAAAGGATGCATCCCCATCTGTCCA
AAGGCTATGCGTACCT
Sequence 815
TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATATCACAGGATTAAC
TCCAGTTAAGCAACTGAGCTAATCATTGAAGTAAATTAATAACCAAGCTTCTTTAACC
TATCAATGCTGTTTTAGAAGCATCATCCGAACAAATAGAGATTTAGTTATAAATTGNCTG
GGCTACATTCTGTGATGAGAATTTGCTTAGTACCACTAGAGGAAGAGAGACTAGAGGCC

[illegible]

TTATAAGGACATAAGAGCACAAAGTTCAGTGCAAGAGATACATCCAGGCTGCACAAGCT
CCGGGAGTGGGGCTGGCAAGCCAAAAGAAACCAAAGTTTGCTTGCCCTTCTGTTCTCT
TTCTGAAGCCACATAACCCCTTATTGACCNNGNTNTCTTGCATCGCTTTTGTTTTCTT
TTATG

NCGCCCGGGCAGGTACCACAAGAACTATGAGCTGGTTATCCACTTCATGTGGAATCATAA
GCGTCCCAAAGTGACAATACATATAGATTGCCAGGCAGTGAAACAGTTAAGATGCCACCA
TAGCTTTCTTTTCAACATCTTTCTAAATTACCTTACTATTTCTTTTGTCCAAGTTTGT
CCT

[illegible]

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGCAGGTACAAAGAGAAGCAGCTGA
AGTTTCAGAACATGCTGTTATGCTTGCTAAGGATACAGAGAAGAGAGTTGACTCCAGCATGC
TAACATCAGACAGAAGTTGGCCCTGAGGGGGCATGTGTTGATCTTACTAGACAGGAGACAGA
TGAGAGATTATGCCATGATATCAAAGAGACTTTAAATTATATGCTTACATCTATGGCAGT
GGAAAACCTCTCCCTGTGGTTAAAGCTTTGTAAGAGACTACCTCGGCCCGCTCTAGAACT
AGTN

[illegible]

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACAATAGCATGGGAA
CCATTAACCAGCAGGCCATGGACCACTGCAGTATCCTTTGTACCCAGAACAGCACCAA
GGTCAGAGGGCACCTGTATTATAAACCACTGCCTGACTGTGAATCCTGATGAATCAAG
CTCAAAAGGAGAAAACATAAAATNCATAAAGTACCTN

TGGCGGCCCCGAGGNCAACTTTAAACTGTATTGTATTCATGTTGCTAAACAATATTGGCCT
TCTCGATNATTTTATTCATGTTGCTCCAAAGTTAAACCCGTGAGAAGTAAAGTAGGTGAA
GAGATATTTTGTATAAGTGCCCGAAGAGAAATTAATAATTAATAGTGAATTGAGCAT
CACTAGAATAAAAAATAAATGAGTAGGCATCTCTAAGATGTGAATGATCACCTAAGATAT
ACATGCTCCAACCATATTGATTTTGAACAACACAGCAGCCATAACAGTTTGTGGCC
TCTACTAACTGNCCCTCTGCTGCCCATCTAGAGGTTATGTTTCTCTATTTTAAATAAAA
TGTA

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTTTTTTTTTTTTTTTTTTTTTTT
GGTTGAAAGATCTAAAGTGTTTTGATCATGTTTCAAACCTTTAAAATCAAGTTAC
TTACTGAATCCAACCATTCCATCTGGAACCTTTGTATCTTCTGTCAATTACAGATCTGCTA
AGAAAACAGAAAGCACCATTTTCCTCAATGAAAGATACTTTGTTACAATAAAGGATA
ATCTATTAATAAAAATGGAAGTCTAATGTCTCCCAATGGCTTAAACTAAGGTTCTAGGCT

Table 1

CAGACTCATGTCAAAAAATATGATCTTATTACTTGAGTAGTTAAATTAAGAAATTTAAGA
TGACACATCGAGTGAAGAAGGGATGATGAATGGAACAGTCTGAAGGCATTAAGTAAAG
AAGTTGAAGTGGAGTTTAGAGAATGTCATCTTAACAGTTACTCTAATTCACCCCTGT

Sequence 830

GNGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGTTTCTNGGNT
TCTGAGTCCAGTCCCCTTNGCATAAACNCCCGGCGNGGCTNTCTCANCCTCCCCGCACCT
TCATGCNCAGNAAATCTTGGACAACCTTGTCTTTCTCT

Sequence 831

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGAGCGGCCGCCCGGGCAGGTACGGGAAGGCC
AAGAAAAGAATAGAGAAGATAGGGAAATTAAGATAAAAAACATACTTTTAGAAGAAAAA
AGATAAAATTTAAACCTGAAAAGTAGGAAGCAGAAGAAAAAAGACAAGCTAGGAAACAAAA
AGCTAAGGGCAAAATGTACTGTTTGAGGTTTCAGGAGTTCACTGGGGGCTTGAATGTA
TCTCCCGAAGATAAGGGGGAAGTACTGTAAGCAAAATCGAAAGCTATACAACATCAGAA
ATGGGAAGAGAGCAAATCCAAGTATAAGTGAAGACATTCTCTGAATTCACGACATTCAT
CGAGCATCAAAACGACCAATCTTTAGTCCCTTTCTTGTACCTCGGCCGCTCTAGAAGT
AG

Sequence 832

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGGGACATTCCAAATGGC
TGCAAACATAATCAGGAATCGATCGGATTGTAAGGACATTGATTGGACGACATATACCTGT
GTGCTAGGATTTCAAGTATTTGGTGTCTGGCCAGAAAGGATCTGATGGGACAGATATCAA
TGCCTGGTGCGATCCACAATAGAAAGGTGATAGCTGTTGCCGATGACTTTTGTAAGT
CCATCTGTTTCAGTATCCCTGCTCCAAAGCAAAGGCTCCAGTCACAAGTACCTGCCCG
GCGGCCGCTCGACTGGCGTTTTTCCATAGGC

Sequence 833

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTAGCCTTC
GAGGCCACCTTCTNTNTGAAGTCTTCCCTGGCCACCCTGGGTCACACTGTGCTGCCTAG
GAACTCTACAGCAGNGAATGCCTGCATGATTNATTTGGNACCTGCCCC

Sequence 834

NGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGGTACGCGGGACAAAAATAAGAAGGC
TTCTGAAAGCACTGCTGCTTGGCATACTTCTTGTAGTAACCCTGTCACCGTCTGCTTTT
TGAAGCTAACTAGATCCAAGAAATTGACATAAATAATGAGCAAGAAAATGATTATAAGA
GGATATTGCCTCATTTCCACATATATTCCTTATTCTGAAGACTACTTTGAGGTCAACAT
TCCAACAGACCTACGAGCAAAACATTCTGGGGAATAAGTGAGAGAAAGGAAATTGAAGA
ACTATCAAGAGCTTCAAGAAACACCATACCCTAGCAGTGGTGTCTCCCACTGAAATTCC
ATGTGAGAACTCCTGGTGAAATATTCATAATTTTGAAGATGAAGTAATTGGTGATACTGT
AGAGGTTGAATTTACATCAAGTAATAAGCGCATTANAACACGGCCAGCCCGTTGGAATAA
GAAAGTCTGGTGCATGAAAGCTTTAGAGTTTNTGCTGGTTCAAGTCCATGTCAATGTCT
ACTGTGATGGAATCGTTAAAGCTACAACCAAAATTAAGTACCTGCC

Sequence 835

GAGGTACAGGTGAATGCCANNCTAGTCATCTCCCATGAAGAANAATTAATNCCTTTGCAC
AAATCCATTCTTCTGATCCAGAAGAAAGAAAGCAGTGAGTGATTTATTTCTCCATTGT
AAGATTTTTGTTATTCAATAATTGCAATGAATGTGCTGAATTTTTATGGTGTTATTGGCT
AGTTTTGAAAAAAGGAAGAAATAAAGCATATTATTTGAAGTTCTAATGACTCAGC
TTTTTCAAAATTAATTTTCAGTTAAGGCAATTACAAACTTATCATTAGTTATTAAC

Sequence 836

GGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTCAAGGCCCTAATCTCAATACCAT
CACATTGGTGGTTAGGGCTGTAACATTGGGATATGGGGCAAGACACAAACATTCAATCCA
AAGCAAGCATGTCCACACTGTTGGGACTCCAATCCCACCTTTGCATTGAGTCATTATTTA
ACCACTGTACCT

Sequence 837

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGGAGGTACAATTTTAATTTACAACCTGTTG
GAAATAAAAAATCACTTAATTTTTTCCAGTGCTTCTCCCTCATCTGGTTATTCAAGAAAA
CAAAACAGTCTCTGAGATATTTAGCTTTTCAAACGTAAATAGATGCTCTAGTGTTATTT
ATTTTTTAATCCCACTTGATTATTTTACCTCTAGAGCATCTTGATTAGGACATGTTAT
ATTTATGCCAGTGGGAAATAAGTTATGGCCAAGTTTTGCAAAACAGGAAGCAGTGAGAT
ACTTGTTTTTTCTCCTCACTAAATATCAGTAATTGTCAGGAATGGTATTACCTATTTTC

Table 1

[illegible]

Table 1

AGAATCATAAGGAAATGTGGCAAAAGGATCAGTGANATTAAACAAAAAAGCNTGGAT
AAGGCAAAGGAANAANAAAAGGCATCAAAAGGAGTTTGNTTNCAATGGAGGGCANTTTGC
CNTNGAAAGNCTTTCCNAGNNGGNTTTTTNAAAAANACNTTNGNTTTAAAAATTNAAA
AANTTTTTNGGGCCCCGACTTTTTNANCCCTTGTAANCCCNNGTCCTTTCCCCCN
CNTNCCCTTGGNATTTTTNNAANTTCCCCNNGGGGGG

Sequence 846

ACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACATTTCTAAGTATCACA
TGACTTAACAGGTGCAAGCTGGCAGGCCATCGGACTTGGTATCCGTAAGACCTGTTGCCCC
TTTGCCCTTCTGCCATGATTGTAAGTTTCCCGAGGCCCTCCACAGAAGCTGAACAGATGCCA
GTATCATGCTTCTGTATAGCTGTGCGCTTTGGGCAGCTGGACACCTCACCCACGCTTC
AGGCTGGAGCCTTCTCATCTTTATTAGGTGTCTTAGAGGCAAGTGCCGGAGGTAACATC
CTCCTCTGCATTTCTTACACTGACAAGGAGAATGCTGTGGCTCTACGCAGTCATCCTTTT
ACAACTTTTTTGCCAGGGAGCAAAAAGTCTTGNCACATNAAGTCGAATGAAGTACCTTGC
CCCCGGCGCGGGGCCGCTTNTANAACTAAGTGGGGATTCCCCCGGGGCTTGGCAGGGAA
ATTTGCAATTNTNAAAAGCNTTTAATTNGATNACCCGGTTCNAACCTTCTAAGGGGGG
GGGGGGC

Sequence 847

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTGCTGTGTAGCAAAAC
AGCCCTAAACCAAGTGACTTAAACAACCATTTTCTTTGTTACAGTTTGC TTTCCTGGG
TTGGGCTCAGTTGGGCGGGTTTTGCTGGTGATCACTCTAATGGCTGCTTTTCTCTCCAAG
TAGCCTTCCAGCAGAGTTGCTGGCCTTACCTGGTAGCTGATGGCTTAGGGCTCACAAGA
GTACCT

Sequence 848

CCGCGGTGGCGGCCGAGGTACGCGGGGTCTGGCAACTTTGGGAACCACCAGTAGGATGTGG
TTAAGATTACAGTTCCTTCTGCTAGCTAAGGAAGCATTTCTCACTTCTTTTTAATGTCTGGC
TCACTTCTAGTCCCTAAGCTAAAGTCTCACTCAAGAGTTTGTAGCTTGAATGTCAAAAGTCA
AAAAATTAATTGGGTGATCTTTCTCCATTTCTAGGATAAGAAGAAAGAGAAGAAATGAAG
TGACCATCCAGCCTTTCCCAATTAGACTTCCTCTCCTTCCACCCCTCATTTCTTTTTGC
ACACATTACAGGTGGTGTGTTCTGTGATAATGAAAGCATCAAAAAGCTTTTGTACCTG
CCCG

Sequence 849

CGACTNCTTAGGGCGCAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCGTGTTTTAAGC
TTAGTTCAGTCTCAAGTGTTTGCGAGCCACATCTGAAGACCAATAAAGCAACTCGTGTTT
ATCCCTTGGGAGCTGACAGAATTTCTTCTCCCAAATACATACAGCATAAATCATAGAAG
TGGAAATGAAGAAAAAAATCTTACGGGCAATGCAATGGCTGCAAACTATAAGGATTAG
AAATGTGAACCCACATTTTAATCCAAATTAGGGCAATTTAGAGGTGGTAGCCGTAAGAA
TAGCTTGCTGTAATATACGCCATGCCTGGATACANAATGGGCTTTGGCCCTTGTCAA
AAAAATAAATTTGCTCCTTNTGTATTGTATGGGTGGGGCATGT

Sequence 850

[illegible]

Sequence: 851

[illegible]

Sequence 852

ACGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAGGCAAAGT

[illegible]

Table 1

TTGTNACACCCAAAAATTTTTTNTTTTTTGGGGGGGGANNNCCCNATAAAAAAGNNG
NNNTGGTNCCCCCNCNCCCCTTTTTTGNGGGGGGGTTTTTTTTNAAAAAATAAAAAATNA
AAAAAAATTTTTTTGGGGGNTTTTTTAAAANTTAAAAATTNNNANCAATTGNAAAAAT
TTTTTTTTAAAAAAATTTT

Sequence 859

CCGCGGTGGCGGCCGAGGTACCAATAAGCATATTGCTTTGGCAATGCATNTCCAGAGCAG
GTGACCCTGGCCGCTGTCTGCTGGGGACACTGACACCNATAGGGTGGCTGTGTGTCAGTTCATA
GGGAGNGTACTCACNAGCCCTGTTGGCACTANTAGNTGNAANGTATTGGGTGGGGNTTA
GNGTTTTTNGGGGTTTTAAAAAAGGGGTNTTAAAAAANAAAAAAGGGGGNTTTT
TTTTTTTTTANAAAAAGAGGGGGGNGNAAAAAAATTTTTTTNNGGGGGGGGGGGGGG
GGNTTTAAAAAAANTTTTTTTTTTTNCCCCNCCCCCCCCNAAAAAAGNGGGGNGG
GGGGGNGTNTCCCCCCTTGGCCCCCCTNAAAAAATAATTTTTTTTGGGGGNGGGG
GGGNCNCNTTTTTTNGGGGGGNTTTTTNAAAAAANGGGGGGNGNAAAAAACC
CCCCCCTAAAAAANCCCCCNGGGNNCCCCCCCCNTNCCCNCCNCAATNAA
AAAAAANGGGGTTTTTTTTTAAAAAANAAGGGGGGGGG

Sequence 860

TCGACTCATTTACCGGAGACAGGGAGAGGCTCTTCTGCGTGTAGTGGTGTGCAGACC
CTCATGCATCACGGAGCATGAGAAGACGTTCCCTGCTGCCACCCTGCTCTTGTCCACC
GGTGNAGCCTTGGCTGTAGTAAAAAGGGTGGGGNTTTTTNAAAAAATAAGGGGGG
NAAAAAATAAGGGGGTGTGGGGGNTTTNAAAAAAGGGGGTTTTCCCCCCTN
TCNCCCCCCCCGGGGGNTTTTTTTTTTTNCCCCCCTGGGGTNGGGGGGGGGT
ANAAAAAANGGGGGGNTTTTTTTTTTTNCCCCCCTCCCCCCCCAAAAAANAGGN
GGNGGTTTTNCCCCCNNTAAAAAANTCCCCCCCCGGGGGNTNTGGGGGGGTTTTNTN
TTTTTTAAAAAANNNNNNTNNGGGGGGGGNTTTTTCCCCCCCCCCCCGGGGGGGG
ATTTTTTTTTTTTTNNGGGGNTNNNTGGGNNNAAAAATTTTTTTTTTTTTTCCCC
CCCCCTTTTTTTTTNNNTTTTTTTGGGGGGGGGGGTTTTTTTTTTTTTTAAAA

Sequence 861

CCGGGCAGGTACGCGGGGGAAGTCTCAGTTAGGACCCANACGGAACCATGGAAGCCCCA
GCGCAGCTTCTCTCCTCCCGCTACTTCTGGGCTCCAGATACTCACCTGGNAGTAAAT
ANGTGGATGTACCTCAANTTCTCNCAAGNNCCCCNTACCCCCNAAAAATGNCCCCNG
NNCCCCCTGTGCCCCANTTTTTTGGGGGNGNATTTTTTTNCCCCCTTTTTTTTGGG
GGGNTTTTTTTGGGGGGGNTNTTTTTTATTCCCCCCCCCTTTTTTTTTTTNCTT
AGAACCCCCCAAAAAAANNNATNTTTTTTTTTTGGGGNNTTATNGGNTNTTTN
CNAATAATTTAAAAATNTTTATAGGGGGGGGNGTGNAAAAAAGGGGGGNGG
GGTCCCCCCTTNNCCCCNAAAAA

Sequence 862

GCGAGGTACGCGGGCATCCAGCAGAGAATGGAAAGTCAAATNACCTGAATTGCTATGTGT
CTGGGTTTCATCCATCCNACATTGAAGNTGACTTACTGAAGTAATGGGAGTAGCAGGAAG
TTGTAACAAGGTGGGNAGACATATGCAAGCATCTTGNGTTTTTNNNGNCCCCNTTTTT
TTTTTTAAAAATTTTTTNGGCCCCCCCAAAAAANNGGGGGGGGGCCCCCTTTAAAA
AANACAAAAAAGGGGGTTTTTNGGGGGGGGNTTAAAAAACCCTTTTTTTT
TTTTGGGGGGGNGGGGGGGGNTTTTTTTTTTTTTNCCCCCCTTTTTTTGTTT
TNNNTTTTTTANGNCCCCCCTTTTTTTTGAATAAATTTTTTTTGGGNCCCCC
CCTTTTTTTNAAAAACCCCCCTTTTTTTTTTTTTTNGGGGGGGGGCCTTTTTTTTT
AAAAAATAAACCCTTTTTTTNCCCCCCTTTTTTTTTTTTNGGGGGGGGGGGT
CNCCCCCATNGTGGGNCCCCCGNGGCCCCCCCCCCNGGNAAAAAATGGGGGGNTT
TTTTGTAAAAAANGCCCCCCCCCCCCGGGANANNANTGNGGGGGGGGNGTATTNATT
TTNCTNTTTAACCCCCCCCCCNGGGGGGG

Sequence 863

CCGGGCAGGTACTTTGGCCTCTCTGGGATAGAAGTTATTCAGCAGGCACACAACAGAGGC
AGTTCAGATTTCAACTGCTCATCAGATGGCCGGGAAGTATGAAGACAGNATNGGGTGCA
GTCTCACCAGATTTCCGTTTTGNATTCTTTTTTTNCCCCNGNTCCCCNAAAAAAGGG
GGNTNTNCCCCCNATTTTTTTTTTTTTTTTGGGGGNCNNNGGNNNNAATTTTTTTT
TATAACCCCTTTNCCCCCAANNCCCTNTATCCCCCTTTTTTTTTNNGGGGNGGGGGGG
GGGGANTTCCCCCCCCNCCCCCCCCNAAAAAGNTAAAAAATTTGAAAAANTTTTTTAA

Table 1

TGGGNGTTTTTCCCNCCTTTTTNNCCCCNTTTCNCCCCCGGGGGGGGGGGGGGGGNT
TTTTTTTTTTTATAAAAAATATCTCCCNNTGTCCCCCTCTNGTCTCCTNAAAAAAA
NAGGGGGGTNGTNNNCCCCCCTTTTTNTTTATTTATNGAATTTATNGGATATTANNG
GGGGGGGGGNGGGGAGTTTTTATATAATTTTTTANTANACCCCTNTNTNTTANT
CCCCCNATATACCCNCCGAAATTTTTNTNTTTTTTANGNGGNGNTTGTCTAN
AAAAAAAAAAAAAGNGGGGNNGTTTTTTTTT

Sequence 869

AGGTACGCGGGATGGCACATGCAGCGCAAGTAGGTCTACAAGACGCTACTTCCCCTATCA
TAGAAGAGCTTATCACCTTTCATGATCACGCCCTCATAATCATTTGNCCTGTATGCTTGG
NTTCTTAGNGCCCTGTTATNGCTCCNGCCCCGTTTTTTTTNTTTTAAATTTTTTANTT
TTTNNCCCCCTNCCCCCTTTTTTTTTTAAAAAAAAAAAAAANNACCCCCCNAAAAAAA
NCCCCCCCCCTTTTTTTTTTCCCCCCCCAAAAAAAACCCCCCCTNTAAAAAAA
AAAANGNCCCCCCTNTAAAAAGGNAAAAATTGNAAAAAATTNAATAANNTACCC
CCCCCTTTTTTTTTTAAAAAAAAAAAAAANNCCCCCCCCCTTTTTTTTTTAAAAA
AAAAAAAAAAAAAATTTTTNTTAAAAAANCCCCCCCCCTTTTTTTTTTAAAA
AAAAAGGGNAAAAAAGGGNNCCCCCCCCCCCCAAAAAAAATTTTTTTTTTTTT
CCCCCCCCCTTTTTTTTTTTTTTCCCCCCCCAAAAAAAAGANGGGGNGGNTNGGN
ANAAAAAAAACCCCCCCCCCGGNGGGGGGGGNGGGGCNCCCCCCCCCTTTTTT

Sequence 870

GAGCTCNCCGCGGTGGCGGCCGAGGTACACTTTTGCCAGNGGACCAAGCTGGAGATCAA
ACGAACTGTGGCTGCACCATCTGTCTTCATCTTCCCGCCATCTGATGAAGCAGTTGAAAT
CTTGGAAGTGCCTCTGTGTGTGCTCTGCTGAATACTGTCTATTTNNCCCTNCCCCC
CCCCNAAAAAGGGGNGNAAAAANGGNNAAAAAGGGNNGGGGNNTCCCCCNCCCCCAA
AAAAAAAAAAAAAAGGGGGGTTTTTTTTTTAAAAATTTCCCNCCNCCCCCTTTTT
TTTNGGGGGGNGCCCNAAAAANCCCCCCCCCNCNNGGGGGGGGGGGGTTTANAAAAA
AAACCCCCCCCCCCCCCTTTTTTTTTTGGGNNGNANAACCCNTNNCCCCCCCCCNCCTN
NNTTTTTTGGGGGGGTNNNTANTNNNCCCCCCCCCGGNGNNGGGGGGGGNGNAAAA
NCCCNCCNCCCCCCCCCGGGGGGGGTTCCTTCTTTTTTTTTTCCCCCCCCCTT
TTTTTTTTTTA

Sequence 871

TACTTAGGGCAATTGGAGCTCNCCGCGGTGGCGGACTTTTGCCAGGGGACCAAGCTGGA
GATCAACGAACTGTGGCTGCACCATCTGTCTTCATCTTCCCGCCATCTGATGAGCAGNT
GAAATCTGGAAGTACCTCTGNNNGNGNGCCCTGCTGAATAACCTTCTATCCAGNAGAG
GGGGGGGNGCCCCCCCCCCCCCNAAATTTNAAATTAAGGGGGGGGTTNNNNAAAAATC
CCCCNCCCCCTTTTTTTTTTNTTGGGGGGGGGGGGGGGGGGCCCNANCCCCCCCCGG
GGGGGNGCCCCCTTTTTNTTCCCCNTTTTTTNNAAAAAAGGGGGGGGAAAAAAA
AAAAAANCCCCCTTTTTTTTTTNNAAAAAANGGGGTTTTTTTTTNGGGGGGGG
GGGGGGGGGGGAAAAAANTTTTTTTTTTTTTTNNCCCNCCCCCCCCCTTTTTTNTAT
ANATANCCCTTNNCCNCCNAAAAAANGAGGGGATTTTCNTTNTTTTTNCCCCC
CCTTTTTTTTGGGGGGGGGNGGCCCCCCCNCNAAAAAANGGGTGGGGGGGGG
G

Sequence 872

CCGGGCAGGTACCTGGATCTTCCAAGCACAGCCACTTNTGTGAACATCCCTGA/CCTGCTT
CCTGGCCGAAATACATTGTAAATGTCTATCACNATATCTGAGGATGNGGGGAGGCANNA
GTTTNGATTCTGTTTATACTTTACCAAAGGAAATNGAAAAANNCCCCCTTAAAAA
AAAAAANCCCCCCCCNAAAAAANGGGTNGTNTTNNCCCCGGGGNNNTNNNTCCCC
CCCAANCNCCCCCTTTTTTTTTTNGGGGGGGNAAAAAANTTTTTTNGGGGGGGG
GGTGTGCCCCCCTTCTCCCCNTCNCCCANNTAACTAANAATTTTTTTNTTTTNN
AATAAATCCCTCNTTTTTTTTTTNGGGGGGGGGGAAAAAAAATCCCCGTGTTTNC
CNNNNCCNCGGGGNGGGGGANAANAANAACCCCCCTTTTTTTTNGGGGGGGG
NTTTTTT

Sequence 873

CTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGCTGTCTAGTTATGGACCCAGA
GGGAACCATGGAAACCCAGCGCAGCTTCTCTTCTCCTGCTACTCTGGCTCCAGATAC
CACCCGGAGAAAGTATGTGTTGATCGCANTCTTCAGGGCCNAAAAAGCCCANACCCCCG
NTCCCCCTTTTTTNGGGGGGATTTTTNNCCCCCCTTTTTTTTTTTTTTTTNGGGG

Table 1

GGGGGTTTTNTNTCCCNNTTTANTNCCCCCCCCCCCCCAAAANNNAAAAAGGGCCCG
GGGGGGGGGGGTCNANAAAAAATAAAAAATNGGGGGGGGNANAAANGNGGG
GTNTCCCCCCCCCCCCCNAAAAAANNCCNGGTNCCCCNNNNCCCCCTTTTTTTTTT
TNTCCCCCTTTTTTTTTTAAANTNCGCCCCCGTTTTTTTTGTGGGGGGGGGG
GGTGTTTTTCTTNNNCAAAATGNAAGGGGGGGGGGNTT

Sequence 874

TACTTAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAGTCAGGTTGTTCAATT
 TGAGCCAAACAACAGATTTCTTGGTTATTGTGCTATTGCCACACCTGGGTTGGTGGTTTTA
 TAGCCATTTCCATCATCAGTTTCCTGTCTCTGCTGGGGTTATCTTAGTGCCTCTCACGA
 ATCGGGTGTTTTCAAATTTCTCCTGAGTTTCCTTGTGGCACTGGCCGTTGGGACTTTGA
 GTGGTTCGAGCGCGCCGCCGAGGTACTCATCTCTGTCCATACGCGATCAACAATAT
 CCTCTAGTTCCTCCATCACAGTCTGCGCATATTTGTCATCAGTGGGAGAGCACGGCT
 GTCATTTGGGGTTTTTGAAAAGTTGTGCTTCTCAAGCAAACCGATGGG

Sequence 875

[illegible]

Sequence 876

CCGCGGTGGCGCGCCGCCCGGNCAGGTACATCAAATCGACTATGCCGAGTTGTGCAGCGTA
NCAAGGAAAAAGGGAAAATCAGCTCCCTCGTGAAAGATGCTTCTGTTCTCTGATTGATG
TTACAAACCTCCCTACTCCTCGAAAAATTCCTTGATACCTCAACTATTNTACTGCTGGAA
GCTCAAAGTGTGAGGGAGATAAATCTGCNGGACATNAAGGAAGATTAGAATTGGATCCAN
AGGAAAGCAGCACCCCTGTTTATGGGTATCCTCATTAAGGGC

Sequence 877

[illegible]

Sequence 878

Sequence 178
TAGGGCGCAATTGGAGCTCCCCGCGGTGGCGGCCAGGTACTTCTTTGCAGTATACAAGGA
CTAACAGTTAATATTGACCCAATCTTATACAGTGGCTCATCTATCAGCCTCAGAAACGA
ACAAGTAGACATATGCACAGCAGCTGTGGTAGCTGTCTCTCTTGTTATGCCAGTTTGT
AGAAGGAAAGAGGATGAGGTGTCTATTGGAAGTGCCCTTGGCAAAGCAACATCATAT
CAGGCCCTCTGAATATGCCAGCAGCCCTGTAAAAACAAAAACGGTAACAGGTTGAAGAAAG
TTCTCCTGGATAATATCCTGAAGACTATTTTCCAACCTTGGTTCCATTTTCCANGGTCA
CCTTCA

Sequence 879

GACTACTTAGGGCGCAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGCCAAAG
GCTGGAAGAAAATTGAGCCAAGAGCTGGAAGCCAGAAGTTCCTCATGCCTGCCCTACACA
TCCAGGCTCTGAGTGTCTTACTTTTCTACTATATTGCCATGCAAGTAACTTTAACCTTTTG
TTCTCTGTTCTGCTCACTGAGAAATACCATGTCTCCATGGCAATGGAATGCATTTACC
TTCACCAAACCTGCTCAAATCCTTGCTGAACAGGACGTAGCAAGGAGTGACTTTCCAAT
GGTGGGAGGTTTCAGAGTACCTGCCCCGGCCGGCCGCTCGAGGGGGGGGCCCGGGTACCC
AGCTTTTTTGTCCCTTTTAGTGGAGGGGTTAATTGCGGCGCTTTGGCGTAAATCATGGG
TCATTAAGNCTGTTTTC

Sequence 880

Sequence 600
GACTACTTATGGCGCAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTAGTGAAATATT
CTTGGTAATATCATTCAAGTGGACTTTGGCATCAATCAAATAATTTGATTCTACTAA
CTGTTGAAGAACTTTGTTAGCCACTTTGCTTATTCATTACATTTTGGGTGATCTTAAGCG
CACATTAATTACCCTGTCTGTTAGCATGTCTTGCTGTTTCATCTTGAATTATTTGTTGT

Table 1

AATTCAACATTTATTTTCCCC

Sequence 887

ATTGGTTCTCCCCGCGGTGNCGGGCAGGTACAACCTTAACTGTATTGTATTTCATGTTGC
TAAACAATNTTGGCCTTCTCGATGATTTTATTCATGTTGCTCCAAAGTTAAACCCCTGTA
GAACCTAAGTAGGTGAAGAGATATTTGTATAAGTGCCACAGAAGAGAAAAATAATNAAT
TAAATAGNGGAATTGAGCATCACTAGAATAAAATAAAATGAGTAGGCATTCCTAAGATG
TGAAATGATCACCTAAGATATACATGCTCCAACCATATTGATTTTGAACAAAAACACAGC
AGCCCATAAAGTTTGTGGCCTCTACTAACTGTCCTCTGCTGTCCCATCTAGAGGGTTAT
GTTTCTCTATTTTAAATAAAATGATGTTAAATTAGCCTGACGGGATGTTTCTCTCT
AT

Sequence 888

CCTATAGGGCTNTTGGNGCANACCCCGGTGGCGGCCGCCGGGCTGGTACTTCCTTCTT
TTTTATGACTAAATNCTACTCTATTGTATGGACATGACACATTTTGTAAATTGTATAG
GTATGCCATACTTTAAGTTTGTCCATAAATCACTTCATTAAACATTTGGGTTGCTCCAC
TTTTGGGTAATTAATTAATTTAATTTATTTATTTTGGATGGAAGTCTCGAAAAA
AAAAAAAAGAATGTGTATCTACCCGCAGTTGTCAGGCGCAGTATCCATATATGTCATT
TAGGTCAGTTTGTGNTTTCAACTCTTCTGTATTTTACTGACTTTTTGGTCTAAGT
TGTTAATCATTCAGTGAGACAGGTGTGTTAAATCTCTCATTTGGGTGATGATTTATCTA
GTTCCCATTTTAATT

Sequence 889

AGGTACCTGCAGGCCTCCTACACCTACCTCTCTCTGGGCTTCTATTTGACCGCGATGAT
GTGGCTCTGGAAGGCGTGAGCCACTTCTTCCGCGAATTGGCCGAGGAGAAGCGCGAGGGC
TACGAGCGTNTCCTGAAGTATTGCAAAACCAAGCNGTGGGCGGCNCGNTCTTAGAAACTA
GTTGGNATCCCCGGGGCCTGCCANGGAAATTTCCGAATAATTCAAAGNCCTTTATTNG
GATTACCCGGTTCGNACTCTTNGTAAGGGGGNGGNGCNCNCCCGGNTTACCCCCAAGCNT
TNTNTTTGGTTTTCCCCCTTTNTAGGTTNGNAGGGGGTTTTAAATNTGGCNGCCCG
NCNTTNGGGTTCGGNTNAAATTNCAATTGGGGGATNCNANTAAGGCNTTGGTTTNTTCC
CTTGGGTGGGTTGNAAAAATTTGGTTTTAATTTCCCGAGCNTTCCAANCCAAATTT
TTCCCAACCAANCCAANACCNATTTAACCCGGTAAGGNCNCCCGNGGGGAAAGNNCCAAT
TTA

Sequence 890

GGCCGCCCCGGCAGGTGCTCGTGATCTAGATAGTGAGCGGACGCGTGGGTGCACTCAAG
ACTTTTAAAGATTTATCAAAATTTGGTGAGCCGAATCTCAGAAAATTTGGTGAATTCGGT
AGTTCCCAATAGGCCGAGTAGTAATAAGTGGAGTGTTGGGATATAGAAAAATTTTAC
GAATGGAATTTAAATTTCTAGGCGAATTCAGTGAGTTCCCAATGGGACATGATTGTATGA
GTGAGCTTTTCAATATATAGCAACATTTTAGGTTCAAGAACTTAAGTATCATGGTGAAT
TCAGTAGGTTCCCAATAGGATTCGCATGTAATAAG

Sequence 891

CCCTTTGAGCGGCCGCCCGGGCAGGTACAAACATGTGCCACGTCAACACACAAAACCAA
AGTCTGCTCAGAGAGGTGGGCTATGGTGTGCAGGCTGCAACCTTCTCTGCAATTTGTTAA
GTCTTCAAAAATCTGAGTTCCTCACATAAAATCTGTGCTGTGGCCAGAGCTCGTTTTAC
CATTTTCTTAGATTGGATCACTTTTAGGATCAGCTTCGTTGTTCTTTGCGTAGACAAATG
ACTCTCACAGCTTTCTCCAAGTGTNCCAGAAGCACTAACTTACTGAAAATAGAATCTCAT
CAAAGCTTAACATATTCACTCTGAAAACAGCGGANCTGCTGGGTGCTTAAGGAAAGCTG
ANAACCTNAAACCTGTGGAAGGAAAACAGTGACCACTTGGGGCCTTATAAAGTTTGAT
TGGCAGGTGANGAAGGGGATCTCAAGAGGAGAATCCCNAAATTTCAAAGACATGGGAGAT
TTTGTCCCTAAATGTTTTATACTAGTGCTCTTGNNAATGGAAAACCT

Sequence 892

CCGGGCAGGTACAAACATCCACACCAGAAGAGCAAGACTTAGAAATGGCATCAGAGGGAG
AGCAAAAGAGGCTTGAAGAATATGAAAATAACCAGCCACAGGGAGAGAATGGGTCTATAA
ATCAACCCAACTGGCTATCAAGAGAATTATACCTTGCAAGATGGCACCTTTGGTATTAGC
GTACCT

Sequence 893

AGGTACCCAGCCACATGGCCTTCATCCTTATGACCTAGCAGGCAGAACAGGGACCAAGC
AGCTTCTATTTGTCAAACCTCTTTGGACAAATATTCAACATTCAACAACAAGCTTTGTA
AACCTAACGCTAAACAAGTCATGGCAAGCAAACCTGGATTTTCTTAAGAAATGAGGAAAAG

Table 1

TGCAAGTGATCTCAGTACCTGCCCG

Sequence 894

AGGTACTTCTTTGCAGTATACAAGGACTAGCAGTTAATAATTGACCCAATCTTATATACGT
GGCTCATCTATCAGCCTCAGAAACGAACGAGTAGACATATGCAACAGCAGCCTGTGGTAG
CTGTTCTCTTGTATGCCAGTTTGTAGANGGAAAGAGGATGAGGTGTCTATTGGAAGTG
CCCCCTTGGCAAAGCAGCAATCATATCAGGCCTCTGAATATGCCAGCAGCCCTGTAAAAA
CAAAAACGGTAACAGAATCCCGTCCATTGTCAGTTCCTGTTAAAGCCATGTTGAATATAT
CTGAAAGCTGTAGAAGTCTGAAGAAAGAATGAAGGAATTTATTGGA

Sequence 895

CCGGGCAGGTACTTACTTGATGTGACTCTCCTCTCATGCCTGGGCCCTGCTTACAGGTGT
GATTGTGACACATAGCTTGGCCTAGCCCTAGGTTATGTTACTCTCCTCTTATCCTTCAG
TTATTTTCAACAGGGGGCATTGTGACATATTGCTGGACTGGGAACCCAGGTGATGTGACTC
TCCTCTACTGCCCTGAAATACAACCAAAAAAAAAAAAAAAAAAAAAAGGTCCCT

Sequence 896

NGNGGCGGCGGAGGNACNNNNNGNCANTTGN TG GGGGGGAAGNAAAACCCCCCCCCCNCAA
CANAGGCAGNNCCAGANNNCAACNNTTTAN CAGANGGGGGGAAGACCCCNACAAAAGGN
GCAGCCACAGNNCGNNNGANCNCCAGCNGGNCNCCNGACCAAAAGNAGNACCNGTTTTNN
CGGCCNTTTTAGAACGNGGGGGNGNCCCCCCCC

Sequence 897

CCGGGCAGGTACGCGGGTCTATATGTCAGAATACACATTTCCACCTTGCCCAACAGTAG
AAAAACATAAGAAGAGAAAAACATTAAAAATGACAAGGAAGTTAATGGAAGTCAGCAAT
GTGATGGTGTGGAGGTGGAGCCTTCAGAAGGTAATTAATGCCCTTGTAGAAGAGGCC
AGAGAGCTTGCGCACCTTCTTCTGCGCATGTGAGGAGCCAAGAAGCCGGCTGTCTGCAAC
CTGCAAGAGGACCCTCACTAGAAGCTAGCCATACTGGCATCCTCATCTTGGCTTTCCAAC
TTCCAGAAGTGTGAGAAGTATATGTTTGTGGTTAGTCAATGGTCTATGGTAATTTT

Sequence 898

AGGTACGCGGGGACGCGCTCTGTGAGAAGCGGCTTGGTCGGGGGTGGTCTCGTGGGG
TCCTGCCCTGTTTAGTCGCTTTT CAGGGTTCTTGAGCCCTTCACGACCGTCACCATGGAAG
TGTCACCATTCAGCCTGTAAATGAAATATGCAAGTCAACGAAAAAAAAAAAAAAAAAAAA
AAAGTACCTGCCCG

Sequence 899

AGGTACTTTTTTTTTTTTTTTTTTTT CAGGTCTCCAGGAAAGATAGTTAAGGCTATGCT
AGTGTAAAGTCTTTATGGCTTGCATGGAACCAGGCAGGCTACTGCTTTCTGCTGTGTGGCC
TGGATCCTTTTGTGTAGAATAAATAACTGCAATAGGAAAGAAACACATATATAATTTTA
TTCTCCATTACAGCCCTTTGGGTTATAGTCTTTCCCATATAGCAGATACTATACTAA
AAAAATTGGGGTGGAGGAATCTTCACTGACATCACAAGGTGATTTTTGAATCCGACTTTT
ACAGTCTGAAATTCAGACTTCTGCCCTACTGCAATGGGAGTAAAAACCACTGAACC

Sequence 900

AGGTACGCGGGGGTGGCGCCAGGGATTTGAACCGCGCTGACGAAGTTTGGTGATCCATCT
TCCGAGTATCGCCGGGATTTGCAATCGCGATGATCATCCCCTCTCTAGAGGAGCTGGACT
CCCTCAAGTACCTGCCCG

Sequence 901

AGGTACAACAGTTTTTTTAAAGATTTCACTGACATTTGCAACAATTTTTTTCTAATTTCT
TTTGGTGCCATTTTAGTAACTTAACAATTGCTTTAATAGACAAAACCAATCATGCATGA
TCAATCACAGGTGAGAAAAAGAGGCGTGCTTACTAATGGCAGCAAAAGGCTTCTGTGGG
GGTGTGCGGGATGGAACAGCTAGCTAGCTAGAAAGGGGCTTCTTTATAGAGGGACTCCAG
TGTCAGGCAGGGGCACTGAAATCTAGGGGTACCAAGGGCCACAGCACAGGGGACTGAGG
GAGAATCCAGTGGCTGGAACCTCTCCTCACC

Sequence 902

ATGACATGGNTCAGCTTCGGTTTAAAAAGGTGAGTGTCTATCTGGAAATTTCTACGTGA
GAGGTGATAGGAACAGAGTTTACTTCTTACACAAGAGGAAGTGGACACGCATTTTAC
CACTTGCTGGAC

Sequence 903

AGGTACGGCCACAAGAGGGTAAGAAATTATCGCATGGTCTAATACCAAATTTTCCCCCAA
ATAGAACCTACCAAGAGATCGAGCAATCAAAGCGTTATCTGTCAAAGCAATTCGCTTCTT
ATTGATTTTGCATAACCAACGCTTGTAGATTAGTTCAATTTACTGACTTCAGATTGGGGTA

Table 1

CCTGCCCC
Sequence 904
GCCGAGGNACGNNACNCCTCGTTTCAGGGGANAAAAACCCANGCGNCCCCACGCCCNAAACA
NGNNCCANAAGCTGTCCNCCANGCNCAGCCNGCCNCACNGNACAACGANNNCNCAGCC
CNGGANNGNNCNCACAGANCNGNCANCAACNCNGGCNCCNGACCCNCNCTCCTTTGT
GACCCNAGCCCANNNCCACCCCNCGCGAAAGNGACCACAGCNCNCCACCANGGCAAGGGGN
NAGGAAGGNCCAAAGGGCNCNACAGNGGGNACGNNCAGCNGGAGNGGCANCGAANNNGN
GCCNNCNCAGNANNGGCAAGGNAAGAGC
Sequence 905
CCGGGCAGGTACTCCCTCCAGACATCCGTATATTGGCCTGGGCCCCTGTAGAACCAAGCT
TCAGTGTAGTTTTCAGCTGCCTTGAGCGGACTTACCGCTATTTTTTCCCTCGTGTGATT
TAGATATTGTAACCATGGATTATGCAGCTCAGAAGTATTGTTGGCACCCATGATTTTCAGG
AAGTTGTGTAAGTGGATGTAGCCACGGTGTGATTAATTTTCAGAGGACTATTCTTATC
TTGCTTCAAAGTACCTCGGCGGGCTNTAGAACTAAGTGGGATCCCCGGGGCTGCAGGN
ATTCGATATCAAGCTTTATCNGATACCCGTCCNACCCTCGAGGGGGGG
Sequence 906
CCGCGGTGGCGGCCGCCCGGGCAGGTACTGGAGGAGTGAGTCCCTATGCTGACCCCAATA
CTTGAGAGGTGAGAGAATGCTCTTTGGTTGTGTACAAGTGCCCAAGGCCCAACAGTCC
TTTTCTCTACAGCTTCTCCTCTCCTTGAGGTGATTCTGGCGGGCCCTTGATAGTTCACA
AGAGAAGTCGTTTCATTCAAGTTGGTGAATCAGCTGGGGAGTAGTGGATGTCTGCAAAA
ACCAGAAGCGGCAAAAGCAGGTACCT
Sequence 907
CCGGGCAGGTACAAAGTGAGGAGGCAAGACAGGTGCACAGAGCATAGCTTTGTCCCATCT
CAGGAACCCCTGGGTTCACCCAGCTCCTGATCCCAAGAGATACGTTTCCCGGGACTCCA
AGGGAGAGCTGAAACACTGGTCAAGCTCAGAGCCCTGAAGCTCTTCCCACTCCCCGCGT
ACCTN
Sequence 908
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTAATGAGGCTGTATTA
AGGAGAGTAACAAGTTCTAATTCTTGACCCATCAAATTTCTAAGGTGAAGCTGAGGACCA
GGAAGAGAAAAGAAGATGCTGAGAAAAGAAAACATTGAAAAGATGAAGATGATGTAGATCA
GGAAGTTGCGAACATAGACCCCTACGTGGATAGAATCACCTAAAACCAATGGCCATATTGA
GAATGGCCCATTTCTCACTGGAGCAGCAACTGGACGATGA
Sequence 909
CGGGCAGGTACGCGGGGAGTCCCCTCGCCAGATTCCCTCCGTGCGCCGCAAGATGATTG
TGCGGGGCGCCCTCCGCCACGCAGCGCGGCCACCGCCGAGACCCAGCACATCGCCGACCAG
GTGAGGTCCCAGCTTGAAGAGAAAAGAAAACAAGAAGTTCCCTGTGTTTAAGGCCGTGTCA
TTCAAGAGCCAGGTGGTCGCGGGGGACAACTACTTTTCATCAAGGTGCACGTGCGCGAAC
GAGGACTTCGTACCCTCGGCCGCTCTAGAACTAGTGGGATCCCCNNGGGCTTGCAAGGAA
TTGATATTCAAGCTTTATTGATACCCGTGACCTCGAGGGGGGGGGCCCGGTAC
Sequence 910
CCGCGGTGGCCGAGCGGCCGCCCGGGCAGGTACAGAGGTTACCCAGTGTGCACTACTTT
TAAATGATCTTAAAGAGCATACAGCTGATGAAAATCCAGACAAAAGCACTTTAGAAAAAG
CTATTGGATCACTGAAGGAAGTAATGACGCATATTAATGAGGATAAGAGAAAAACAGAAG
CTCAAAAGCAAAATTTTGTGTTGTTTATGAAGTAGATGGATGCCAGCTAATCTTTAT
CTTCTACCGAAGCTTAGTACCT
Sequence 911
AGGTACCAACTGGCCTCATCCTATATTCACTTTGGGCCCTGGGACCAAGTGGATATCAA
ACNGAACTGGNGGCTTGACCATCTGTCTTCATCTTCCCGCCATCTGATGAGCAGTNTGA
AAATCTGGGAAGTGGTCACTNGTTGTGTGCCCTTGCTGG
Sequence 912
AGGTACCACTGTGNAGGAGACTGCAAGNAAAGCTGTTATTCAAAGTAAGAACAGTCA
GCCTTGCTTGAGTCCTGTTTTATGCTTGCGTGTTCATACCAAAACACAAAGGCAAGT
CTTCATATCAGCACTTTAGTCTTTGATATCCAAGTTAGCTNGACTACTNGTACCTNGNCC
GGGCGGCCGCTNTAGANNAGTGGATN
Sequence 913
CCGGGCAGGTACTATAGCTGTAAGGAGAAGCTGAGAAATGATACCCAGGAGCAGCAGGCT

Table 1

TTACNGTCTTCAGCCTAAACCTAAAAAAAAAAAAAAAAAATTTAAACAGCTATTAA
CTGAAAGCATCTGTAACAAAAAAAAAAAAAAAAAAGTACCT

Sequence 914

[illegible]

Sequence 915

Sequence 915
AGGTACCATCGATCCTAGTGGGACGCGATCCAAAAATATGCCTATTAAGATAATTGCTT
TGCCTTATGTTTAATGGGAAAGNCTATCTGTTTGGCTTAAAAAGGGGACAGATGTTCTGCC
ATGACAAATTGACCAACANAATTNTTGTCTCTCTGNNACTCCAGTAAGAAAAAGACNCGT
TTACAGACAGTGGGGTTCAAGGNNCAGNCACAGAA

Sequence 916

Sequence 910
ACCGCGGTGGCGGCCGAGGTACAAAGTGTCTTTNTGTCCTGTGTTTANCCNTTTAACAT
ACAGAACCTAATTTTACTGGCATTTTAATGTTAATTCCTCACTCGAAGGTGAACATGGGA
TGTTTGTAACACATATGTTTTGNTTATCAAGCACACATATGACCCCTTTTCATGAATAT
TCATAGGTTCCC

Sequence 917

Sequence 517
ACCGNGGTGGCGGCCGAGGTACACTTTGCCTGCTCCAGCCCTGGAATCAGCCATTGCTGC
TGTGCTATCCTTGACAGAATAACCTGAATTTAAACAAGGAGGAAATATCAGGCAAACA
CAAATGGAGTGACATTCTANTAAACAACCTTGATCAGCACTCTTTAAAAATGAAAGACAAA
AGAATGACTTGAGGAATGAGTTTC

Sequence 918

CGGCCGCCCCGGGCAGGTACGCGGGGCAATTTGGAGAAGATAGAAGTTTGAAGTGGAAAAAC
TGGAAGACAGAAGTACGGGAAGGCGAAGAAAAGAATAGAGAAGATAGGGAAATTAGAAGA
TAAAAACATACTTTTGAAGAAAAAAGATAAATTTAAACCCTGAAAAGTAGGAAGCAGAA
GAAAAAAATNATTTTTTNAANNNNNAAAAGTACCCTCGGCCCGCTCTAGAACTAGTG

Sequence 919

Sequence 919
CCGGGCAGGTACTTCATGAAAACTACCATAACGTAAATTCCCTTCTCTCCCCTGGATGG
AAGTATCAACTTGGAAGTTACTAGGAAAAGGTAAGGGAAGTGAAGTGAAGGACACTAGGCTT
ACCTTTTAATTTGGAAGAGTAACTGGATTATTTCAAGTTGCTACGATTTCTGCAAACGGA
GACAAAGAAATTGGCAATATCATCTCTGATGCAATGAAAAAGTTGGAAGAAAGGGTGTC
ATCACAGTAAAGGCAAGTGTTTGATTTTTAAGATAAATTTGAGTTATCTTATGATC
AAAAGTTTGAGTTATCTGATGATCAAAACGTAATTTT

Sequence 920

Sequence 920
AGGTACGCGGGGCCGTAACTTTTCTATCCGTNCGCGTCAGCGCCTTGCCACCCTCATCTC
CAATATGNCGTGGTCCGACCCCCAGTGGCACTAACGTTGGGANCCTCAGGGCGCTCTTC
CCAAG

Sequence 921

Sequence 521
AGGTACTTTTTCTTTTAAAAAAAAAAGTGCCTTCATTCTCACTGCTGTTATTGT
TTTCTGACAGCATGTCTGAACCAGCTAAGTCAGCTCCTGCTCCGAAGAAGGGTTCCAAGA
AGGCTGTGACCAAGGCGCAGAAGAAGGATGGCAAGAAGCGCAAGCGCAGTCGTAAGGAGA
GCTACTCCGTGTATGTGTACCTGCCCG

Sequence 922

CCGGGCAGGTACCCAGTTCAGGCCCTTGACTCTTGGATGGCATTCTGGACTTGGCCTGG
GCCAGAAGGAAGCTCACTGCCCTGAATGGAGAGTTCAGGCCTGGCAGCATTACCACAA
ACTGACTAAAGAGGCCCTGGGCCCTGAAGTGAACATCAGTGGTAGTCTGGCAGTATTCCT
ATGGACCTGTGGTGGTGGTGGCCATAAGGGTGAAGGCTCCTCTGCCAGTGAAGGGGAGG
GAAGATGAGGAAGGACATCTTGTNAGTTTAAGTTCCAGCTCAGATGCAGTAAANTA
GAGCAGTNC CGNNGATTCTAATATTTTTACTTNNAGTCCCTGGCTCCTGGAAA

Sequence 923

Sequence 525
GGAGCATAAAAGTGTAAAAGCCTGGGGTGCCTAAATGAGTGAGCTTAACTCACATTTAAT
TGCGTTGCGCTCACTTGNCCGTTTTTTCAGTTCGGGAAACCCCTGTCGTGCCAGCTTG

Table 1

Sequence 924

AGGTACATATCACAGGATTAACCTCCAGTTAAGCAACTGAGCTAATCATTGAAGTAAAT
TAAAAATACCAAGCTTCTTTAACCTATCAATGCTGTTTTAGAACATCATCCGAACAAAT
AGAGATTTAGTTATAAATTGCTGGGCTACATTCTGTGATGAGAATTTTGCTTAGTACCAC
TAGAGGAAGAGAGACTAGAGGCCCAAGAAGANGGTGAAAGTAGAGCTATGTGCCCAAGAA
AACTTGTAGAGATGGAATAAGAACTGAAACAATAGTAGAAACACTTGCCCTGAAGAAAA
AGGATGGAAAAATGAAATAGATTGATTTTAGCTGGTAGGGAAGAAAGTTAACATAGTCT
TAGTCGGTTGTGTTTTCTCAAGGAACTGAGAAGCAGGATTAGTTTTAGAAAATTTGAAGA
AGGTAGTGAGAGGNTGAAGCCAGCTGGGTGAGTGAGGNCCTGGANAACTTTTNTCGN
ACCTGCANGCCCTTCTTANACCCTACCTTTTTTTTNGG

Sequence 925

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACTNNTTTTTT
TTTTTTTTTTTTTTNNAAGAACAAAAATGTTTTTTTTTGGATATAGACATTTAAACAT
TCATNTCCAAGAACAGCTTCAATCAGGTATACAATAAGAAATAGACTTTAAATCCTAATC
AGAAAAGGNAACAGAAATTTTTTGAATGCTGCTGTANACACTAGTGTTAGAAAAAAAAGT
TTATAAATGGTTTTGCACCAAAAAAATATGCAAAGAAACTTGAAA

Sequence 926

GGCGGCCCGCCCGGGCAGGTACTACGAGTGAGTGAGGCTGGGAGGAACACCAACCTAAGCC
AGGGTAATGAGGGGGGACTCTTTACCCAGGACCCTGCCACTGGCCTTCTCTCTTCCAA
ACACAGGTTCCGGCATACCCAGGTGTGCAAGGCCTCAGCACTGAAGCATGGNGGGGATCT
GGCACAAGACCAGCCTGGACAGAGATCTTTGGTGTCTCTCTGNGGCCACCATCAAGTT
TTGAGATGCTGAGCACAGCCCCACAGAGTCAGCTCTTCTGGCTCTGGCTGACAGCAGTA
TCTCCACGAAGGGCACAAAGAGNGGCACCTTTGTCATGTATAATTGTGC

Sequence 927

CCGGGCAGGTACTACGAGTGAGTGAGGCTGGGAGGAACACCAACCTAAGCCAGGGTAATG
AGGGGGGACTCTTTACCCAGGACCCTGCCACTGGCCTTCTCTCTTCCAAACACAGGT
CCGGCATACCCAGGTGTGCAAGGCTCAGCACTGAAGCATGGTGGGGATCTGGCACAAGAC
CCAGCCTGGACAGAGATCTTTGGTGTCTNTCTGTGGCCACCATCAAGTTTGAGATGCTG
AGCACAGCCCCACAGAGTCAGCTCTTCTGGCTCTGGCTGACAGCAGTATCTCCACGAAG
GGCACAAGAGTGGCACCTTTGTCATGTATAATTGTGCCCGTCTTGCCCACTCTTTGAG
AGTTACAAGTGATATGGAACAAGGTCTGTCT

Sequence 928

ATTTTTTTTTTTTTTTTTTTGGCNGCTTTCTGATTTTTTAACACTCATACAATA
GTCTGGTAACGGTNTTCTTTTTAAGCAGGGAACCTCCNGGATTCAAATNCCTGATAATTA
AAGGATCTTTTGATATTTTGGCAGTTNCTCTCACTAAAAGAAGTTNCATTANCAGATTA
NAATGATTCATGAGAAATCTTGGNTAGTAAATATTTAATCCAGATTTTATAATTGCTTA
AATCTCTTTATAGGTTATTTCTTGCAATATTTCAAGATCCTGAGTCAGCCATGCTTATAC
AAGCAAACTTTTATTTA

Sequence 929

CCGCGGTGGCGGCCCGCCCGGGCAGGTACTACCTCCTGGCAGGAGGCCAACCAACACAAAA
CTAGTGCAATAAACAAAACTACAATAAGGATCCTCACAAGAGCCCATTTCACTCCCCTG
CCACCTCCACAACAGCAGGTGCTTGTATCCATGGCTGAGAGACCTGAAGACTTTCACATT
ACAGGACTCTATGCAGACTCCCCCAGTACCT

Sequence 930

CCGCGGTGGCGGCCCGAGGTACTTCTATGTCATCATGGGTCTCAAAGGTGTTGTCAAAATT
GAAAAGATACTCAAATTTGCTACTGGAGATGCTGCAATCTATGACTGTTTTCTGCTTGT
ATTGATGATTATGAATGGCAGCTGAATGGCANAGTTGAGAGCCGGCGNCCCTGGGTTTT
GCTGCTTNAATTTTGTNAATTTTTGTACCTGCCGGGGNCGGCTTTTTNNAAAAACT
NGGNNCCCCCNGGGGNNNGGAAGNANTTTTATTNTNTATTTTTNTTCCCCCC
CCCCCTNGGGGGGGGGGGGGGNGNCCCCCCTATTTTTTTTTT

Sequence 931

GTACTTAGGGCGAATTGGAGCTCCCCGCGGTG/3CGGCCCGCCGGGCAGGTACCAGATTCT
GATTCAGTGATAATCGACTCATCTGTACTAATACTTCCCATCTGGCTTTCTGCGCAGC
ACCTTTCTTTCATCACTGGCTTTGCGAGTCTTTGGGGAGGGCCTCAGAGACTGTTTCTG
AAGGGACATTACTTTCTACATGTGGGTACCT

Sequence 932

Table 1

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGCAGGTA CTGTGCAATGCCT
CAGGTTGCACCTGACTTATATGCTGAACTACAGAAGGCACATTTAGTTTTATTCAAGGGT
GATTGAATTACAGGAAGTTGACAGGTGACAGAAAAATGGGAGTTTTCTGTTCCATTTC
ATCAGGCTCTGAATGGCTTCCATCTGCACCACTCTGTACCT

Sequence 933

GTACTTAGGGCGCAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCCGGGGCTGGCTCC
TCCAGTGTCTTCTCAGTCCTGAGCAACAGTGCAGAGGTGAAACGGGAGCGCCTGGAAGAT
GTGGTGGGAGGGCTGTTGCTATCGGGTCAACAACAGCTTNGGACCATGAAGTACCTGCCCG

Sequence 934

AGCTTTACCGCGGTGGCGGCCGCCCGGGCAGGTNCTTTCAAACAACGCGGTAGGCGCTTC
CTTTGGGTCCTGCCATTGACAACGATACCCAGGTGGCGCAATCTTTGAAGCCGATGACCATT
TCGCGTAATGGNCCATTGGACTNATGGGGGGTATTTCATCTTTAAATGGGGCTTTNCGTGCC
ACCCATTACCTTNGGCCCGCTTTAAAACTAAGTTGGGATCCCCCGGGCTTTCAANGGA
AATTTTNGAATATTAAAGCTTTATTNCGAATCCCGGTGCGAACCCTTTTNAAGGGG
GGGGGG

Sequence 935

Sequence 500
TAGGGCGAATTGTAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTGTGTATCATCGC
AGCTTTGCTTTTTTGTAGTAATGGATTCTAGATTCTATGAGGATACCACAACCACTTTTA
AAGAGGTTTCTAAGGCCAGGTGCANTGCTTACGCCTGGGAGACCAANGTGGGAGGATCAC
TTGAGCTCAGGAGTTTGAGACCAACTTGACCT

Sequence 936

NCACAGATTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCACAAACACGAT
CCTACTTCCAGGTTTCTCAAACCTGGAGCATCTGCTTAATTTTCCATAAAATCAGTCTTA
TTCTTTCTGACAGCTCTGAGACTCCTCCGGCCACGACTAGGTGCTGTCTGAGGAAACG
GTGGAGGA

Sequence 937

AGGTACGGGAGAGACTCATAACTCTCCAGGCCCAAGTCTGGGGGAACCCCTCATGGGAGC
AGCTGTAATGAGGCCCTGAAACTGGACACTGCTGAGCCCTGACATCCAGACCTCAATGCC
CTGACTCAGCCCATGCGCAGCGACCCCTTCAAAACGGCTCCATGTGGCCCTGTAATCAGGA
AAGACTAGAGCATCCAGGAGTGGAGATTTGATTCTGAGATGCTGGGAGTTGTTCTCTGGTT
CTTGCTCCTGTCTGGCTGGTGTCTGACAGCCAAAAGCGGGGAGTTGTGTGAGCTTTGTCT
TCAGCACTAGAGGGTCTCACTCAACCCCATGAGAAGGGGATGCCCCAGGCTTGCCCATCACA
AGCACTGGCCCAAGCTGACTTCCCGCTGCTGAGGGAAAGA

Sequence 938

[illegible]

Sequence 939

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGGGCCTGA
GAATTTACATTTCTAGCCAGCTTCTAAGTGATGCTGATGCTGCTAGTTTGGAGACCACAC
CTTAAGAACCACTGCTGTTGGTCTTGTCTGCACAGTAGATGCACCAAGGCAAATGTTTAG
AAGTACCT

Sequence 940

[illegible]

Sequence 941

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACCTGAGACAATAGC

Table 1

ACCAAATTCAACAGAGAGAGAAAGAATGAGTGAGAGAGCACTTTACACCAAGGCTCTGCACA
TAATTGGTGCAATTTGAAATTGAATGGCTCAGAAGACTGCTCTGTGAGGAGCAGATTGGA
GAGGATANAATCATCTTGCCGCGTACCT

Sequence 942
CGCCCGGGCAGGTAATCCCCCTCCCCAAATAGAAACCTCAAAGACTGATCCATTTCCCCTA
GGGCTGGGCCAGGAGTAGCTCACTGCTCACTGCTGAGGAGAAAGGCACAAGATATAATG
TCATAAGAGCAGGACAGTGGCTCACCTACAGAGTTCCCTATAGGGGAAAGAAGGCAGGAA
ATAGGCGCAGGGTCTGGTCTGTCCCTGCACCACCTGAGCAGCTAGTCTTGGGAAGGGA
TTACAGGCCCTGGGCCATAGGCTGCTCGCCATTCTGCTTTCCTATCCTGTTTCTCTCCCT
GTGCTGCTCCCTTTTAGCCAGGGCTGAGAAATGTTACGACCTGAGGCAAAACTGCCAT
AATACCT

Sequence 943
TGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCATGGTACCACGTGCATGAAACCCCTGTCA
CATATCCCCTTGCTTGCTCAAATCAATCAGACCCCTTTCATGTGAAATTTAGTGTTGNG
AGCTCTTAAAGCGACAGAAATTGTGCACTCGGGGAGCTCGGATTTTAAGGCAGTAGCTT
GCCAATGCTCCCAGCTGAATAAAGCCCTTTCTTCTACAGNTCCGNGTCTGAGAGGTTTTG
TCTGNGGCTTGTCTGCTACAGTCCCTGGTTCCCTGACCATGGAAGCGAGGTTGACTGAC
AAGCCCTGTGGAGCGTCCCTGNANAGGACTNCGGCCTGCNTGAATGACNCAATCCAAAGA
GCGCTTNCGGNTAGGAAATGGNCCTGGTGGAATGCC

Sequence 944
CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTACCATCCACATTATCT
GTTTTATTTTGGCAAAATGAAAGCATCTTAAAAAAGGCAATCAGAAATACAGGGC
TTTCTTAGAAAGCAACATGCATCATATCTTGAACAAGTTACCCGAGCGGTTTCTCCGTCC
TACAAACAGACATGGATCAATCTCTCTCTCTGGGAGCTTCTGTCTTTGCCAGGTCGC
TCCCTGAGAGGTGAGGTCTGAACCCACTGGGAAGCAGGACGATGTTCAAGGCTGTACCT
GCCCC

Sequence 945
CTACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACAAGTTTACACCGTAA
GAGGCAACATGGTCAGCCACAATGTCTTCACTCCACAAGGGCTCATNACGGTGGTCAGG
GCGAGGGCCCCCAGCATCAGAGCTTTGTTTAGGATCATNCTCTTCCAAGGCAGCCTCAN
CAGTTGCTGTTNTGAGCTGNAGAGCAATTGNNCCCGGTACCTGCCCC

Sequence 946
AGGGCNAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACCTGCCTGGAGCCTGGTAGACT
TGCTGGGTGGCTAGATTGAGAAGAGAGAGCAATCACTACAGCTCAGCTCTCAGGAAGC
CACATCCATAGGAAAAGGGAGAGAGTACCTGCCCC

Sequence 947
TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTT
TTTTNTTNGAGTTACAGTAATTTACTTTANCAATCANACATGTATTCTGTGTCTCAC
GGGCCACCTGCTGAATGANAGGACTCCAGTTGAAAGGTCAAGAACATAAAACCACAAAAG
CTTTTTGAGTGGGTCTTNAACTTANTTAAATAAAATAAAGGACCTNCCGCGTACCTGC
CCG

Sequence 948
ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAATTCATGTGGAG
GTCAGAGTGGAAGCAGGTGTGAGAGGGTCCAGCAGAAGGAAACATGGCTGCCAAAGTGT
TGAGTCCATTGGCAAGTTTGGCCTGGCCTTATCTGTTGCAGGAGGCGTGGTNAACTCTGC
CTTATATAATGTGGATGCTGGGCACANATCTGTCAATTTTACCTATTCCGTGGAGTGCA
AAGACNTTGTGGTAGAGGAAGGGAAGTCTNTTTCTCATCCCGTGGGTACCTGCCCCGGGCGG
CCGCTCTANAAGTGGTGGGATCCCCCGGGCCTGCANGAnnnnnnnnnnnnnnnnnnnnnnn
nnnnnCGTCGACCTTCGAGGGGGGGGGCCCCGGTNCCCANCTTTTGTTCCT

Sequence 949
GCTCCCCGCGGTGGCGGCCGAGGTACTACTCAGCTGATCACAAGCTGCTTGATGGGAACC
TACTAGATGGACAGGCTGAGGTGTTTGGCAGTGATGATGACCACATTGATTTGTGCAGA
AAAAGCCACCACGTGAGAATGGCCATAAGCAGATAAGTAGCAGTTCACTGGATGTCTCT
CTTCTCCAAATGCTACAGTACCTGCCCGGGCGGGCCTCGATATTATTCTTCAATTGAGC
TTGTTAAACCTCCTTCAGGATTCTAAACCTTTAGACTCTTAAATTGCAGCCTTCCATG
TCCCTTGCTCTGCTCCAGCACACTCTCAGTAAACAAAAGTCAACAGCACCAGGGCA

Sequence 950

Sequence 951

Sequence 952

Sequence 953

Sequence 954

Sequence 955

Sequence 956

Sequence 957

Sequence 958

Sequence 959

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Table 1

TTAATTTTTTAAATCAAAGAAGAAAAAGGCTTTCACACAGATGAATGTATAGGAAAACA
CAAGTAATGACCAATTTTCAAGAGCCTTATTGTAAAAAAGAAAGAAAAAGGACA
ATTATTTTTGGAGTTACTGTCTCTAATTCITAAAAAGTAAGTACCT
Sequence 960
CCGGGCAGGTA CT CATCAGATGGAATGTTTTACCCTGCCGAGGTTNTAGTCATGATGTGC
TGAGCTCTCTGNGTCTGACGTGACTGACTGGTANCTGGGCGTTGGCNGACCCCTCCTTTN
NCTNTANNANCACATNATGNAGAATTTNNCACCTATGGGAAAATTAAANTGATNGACATG
CCCNNGAAAGGATGCATNCCCATCTGNNAAGGCTATGCGTACCTCGGCCGCTNTAGA
NCTANT
Sequence 961
AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACCTGGTTTTAACTTC
ATGTGTCTGAAAGCAGCACTGAAGAGGTTAGAAAAGACCATCTTGATCTGAGGATGCCAC
CCCTCTCCCATCTCCAGCAGCAGCCACCGTGGCATGGAGAGAATCTGTGTCTAGGGAG
AGGGACAGCACAGTGATTGTGAGATACTGCTTTGAACTCAGTGCTGCCCTGTCACAGCTG
AAAGCAAACTGGGCTGAACTCAGCCAGCACCCATCCACACAGGGAGCATTTAGATGAGC
TCTAGCCAGAGAGGAATCGCCCATCCAGCAGTCTGAATATGAGTTCAGCAAGCCCCGT
CACTGTGGGCTAAATTGGTCCAAGACCTTAAATAAACTTGAAAGGGCAGTCTAGGCCATA
AAGACT
Sequence 962
NCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTA CTCTGCCAGTTTCTTCT
CCACTGCACCTTATATTCTACCAAAAATTTCTCCATAGCACCAAATCCCGCATTTCCG
AGCTACGATCACCCGCGGCTGAGGAAGGACGAATCCCCCGCTACCTGCCCG
Sequence 963
CCGGGCAGGTA CT CCGCCATTTTACGTGAGAGACTTGAGCATTCTTGGATTTGGTATCCT
CAGGAGTCCGGGAACCACTCCTCCATGGATATCAAGGGATGACTGTTTGCCCGTGT
AGCCTTTGTATCTTTGCTCAAGAAATCCCTAAAACCTGGAGTACCT
Sequence 964
GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTA CTCTTTTTTTTTCTTTTTTTT
AAGAGTATAAGGTTTACACAATCATTCTCATAATGTGACGCAAGCCAGCAAGGCCAAAA
TGCTGGAGAAAAATAACGGGATCTTCTCTGTAACCTGTACCTGCCCG
Sequence 965
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTA CTGTCTTGT
TTCCCTCTGATANGGTTTGGATCTGTGTCCCCACTAAATCTCATACTGAATTGTGATCT
CCAGTGTGAAAGTGGGGCCTGCTGGGAGGTGATGGGGGATCATGGGGGTGGAGTTCTCA
TGAATGGTTACCACCATCCCCCTTCATACTCTCTTGTCTCCAGCTCTGGCCATGCGAT
GTGCCTGCTCTCCCTTCCCCCTCCACCATGATTCTAANTTCTGAGGCCTCCCCAGAAG
CTGAGCAGATGCCAGCCATGCTTCTGTACCTN
Sequence 966
TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTA CTAGCAATCGGGTTGCCAGC
AAAGCACTGGATGCAAGCCTTGCTTCCAGAAGCTTACCAGTCGGGTTGCCAGCAAAGCA
GTGGATGCAAGACTTGCCCTCCAGGAGCTTACCATCACAACGAAGAAGACAAATAATGC
ATAATATACAGACGACATAAATCCATACTGCACTCCAGCCTGGGTGACAGAGCAAGACTC
CATCTCAAAAAAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAA
AACCANAAGAGCAAGGGAAGGCTCACAGGGCTGAATCTTGAAGAATGGGGTTCTCAGGG
TTACAGAGAAGGGGGAGGACATTCTGGACAGAAATGGAATGTGTGAAGATATTTGTGTA
CCTGCCCGGGCGGCCGCTCTAGAACTAGGTGATCCC
Sequence 967
AATTGGAGCTCCCCGCGGTGGCGGNCAGGTACCAATAAGCATATTGCTTTGGCAATGCA
TCTCCAGAGCANGTGACCCTGGCCGTCTGTCTGGGGACACTGAC
Sequence 968
ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCCTAATGAAACCCGTCTTTGG
CCTGTGGCTGAGACGCCATCTGAGGCGGTGAAATCTTTCCAGCCTATGTGACGAGGGTC
ATGCCACAGGGTGCGCACCTGAAGGAAAAGGAAAAGGAAAGTTGAAACACAGCTCCTTC
AGGGCTTNTTCTTACCTGGCCAGGGGTGTTTCTGTGTGCCACAGGGCGTTCCGAGGGTG
CTCGCCAGGCCCTGTGGTGGAGTTTACAACCTTTCACAGAAAGGCCCGAGTATCCCTGAGC
CCTCGTGGGGTTGGTGTCCAGTAGGACTGGGTGACTTGCTTCACATCACAACATAAAAG

Table 1

CGGCTGCTGGACTGGTAGCCAAAAGACAAATNCAGCATAGTCATCGTCCCTTTTCGGTGT
TGATGAAGAAGGTGCCACTTGAAGTCCACAGCATTAACTCATCATAACCTGGAAGAAGA
ACCCAGAGCCAGGTAAACCTGCAGCCTTCAGAAAGGTTCTCCGTCATGTTTCCTAGA
CATTCTCAACACCCACAGGGGATAGGTACCCTGNCCCCGGGCCGCGCTTNTAGAACTA
AGTGGAATCCCCCGGGCTGCAGGAAATTCNATATTAAGGCTTTATTGATACCCGTCNA
CCTTNAAGGGGGGGGCCCGGACCCCAACTTTTTG

Sequence 969

TGGAGCTCCCCCGCGGTGGCGGGCCCGCCGGGCAGNACTTTTTTTTTTNTTCTTTTT
TAAGATTATNTNTNTAAAGGGGAGATAGGTAGGAGTAGCGTGGNAAAGGTGATGAGTGT
GGGGAGGAATG

Sequence 970

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGGCCCGCCGGCAGGTACCTCATCCTGTCTC
CAGGCCACTGAATAACACCCAAAAGAGCAAGCAGCCCTGCCATCGGCACCTGAAAAATA
TCCTGAGGAGGAATGGCATCAAAACAAAAAAAAAAAAAAAAAAGTCCTCGGCCGCTC
TAGAACTAG

Sequence 971

ACCNAAGCATTCTACCACAGTTCTATTTGACTCCCACTTGAATAACTCCTTTAAAAA
TTCCATGTTTAAACCATATGACCCTGCTTGCTTACTCATATTCTCCCTCCCTCTCCCTTC
CTTTCTCTTCTCCAGAAAGTCATTTGCTGTTGAAATATTTGTAGGGATTGCTTATTATA
TTATTTTAGCTGATGAACCTCAGGACAACCGTCTACACACACACATACATACACGCAC
ACAAAATCTCAGCTGTTGAAGAGTGGGCTTGAATCAGACTTCTGTGTCCAGTAAAAAAC
TCCTGCACTGAAGTCATTGTGACTTGAGTAGTTACAGACTGATTCCAGTGAACCTGAATC
TAATTTCTTTGATCTAATGAATGTGCTGCTTACCTTATTTCTTTTAAATTGATAAGCT
CCAAGTAGTTGCTAATTTTTTGACAACTNTAAATGAGTTNCATTCACTTCTTTTACTTA
ATGGTTTAAAGGTATAGACCTGCCCGGGCGGGCGCTCTAAGAACTAGGTGGATNCCCCGGG
GCTGGCAGGGAATTCGAAATCAAGCTTAATCGATTNCCGNCCAACCTCGANGGGGGGGG

Sequence 972

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGGCCGAGGTACTTTTTTTTTTTTTCTCC
ATGGTTCTTTNGGTATCTCTCCTTCTTTCCCTGTCAGCCACAGTTCTTTATATTAAT
CTTTTGATGGCGAGAATCCTGGAGTAGGAGTGAGAACTGGACTGTAGATGCACCTCTCCC
ACTAACCTGTGTTNGGGGCAATACGTCTGTCTCGTTGGGAGATGAACTTTACAAGTTCAA
TTACTAAATCTGAAATATCTGGATTAGAATTTCTAGGTTTTTTTTCTGCTCTTGACAT
TCTATGATAACTCCATGACAAATGTTCTTTTCCAAATAATTAAACCTTAAACATTTCC
GTTTAAACCTTCAAAGACAAAGACAACCTTNTTCTTTTGCATTTGGGGTCATAAACTT
CTAAACTAATAAGGTTAGATGTTTAGGGGAGAAATCTATTTGCCTACAATAACCAACCC
CCCTCCAAAAGCC

Sequence 973

CGAGGTACCTATGGGCCAATGAATCCCACCATTTTCAAATAAATCNTTNTCANACTCCA
CTCAGNTGGAAAGTTTGCTGAAAATATTTCTGGATAAAAAACAAAAACCTCATGTTGG
AAATCAACTGTCTTCCCATTTGGAACATTAAGAGGAGTCCCCAGGGAACACTGGTAATA
GGTGAAATGGTTCTGGAGTCACCAAGTGTGTACAGAGCCGCCAGGCGACTCAATTAC
GTGCTCCTTTTCTGGGGATGAAAAGGTGCTCACCAGATCTTTCTATGCAACTGAGAGCTC
CTAAATCAAGTCAAAGGGGACCATCGTACCTGCCCGGGCGGCCGCTCTAAGAACTAGTG
GATC

Sequence 974

CCGCGGTGGCGGCCGAGGTACTCAGAAGTGTCTCTAGGAGGCTGGGCCAGTTTCTCTCT
TTTCTGCAGGCGTCTCCAGAGCACCTCTCACCAGCTGTATCTACTACAATCGTCTGGC
ATTTGGAATCTGGTTGAGTTTGGGCTCTCAATACCCAGAAAATAGAGCCTCCAGGACCCG
CCCCTAAGCAGGAATTTTTCAGATCTCCCTTCTGGGTCTTTGGTCCCTAAGTCTCTGGC
TTTGGCATTCTGTTGGGAATCCTTGCGGAGAGCCATCCTGGTACCTGCCCG

Sequence 975

CGAATTGGAGCTCCCCGCGGTGGCGGGCCCGCCGGCCNGGTACANTTNAATACATTANTG
TAGTAAGNTATTAANTGGTGGCCCTATGATCTNCGAGAGGTAATACACTATCACGTGTTT
CAAAATTTTACAGGAAAAGAAATCATAGANTCCTATANCTGAAGGGGGCTNTACCGGGNTC
TACAAANGCCTGCCAGGTGCTNGGATNTCCTNCATCACATNCANCCATGANAAGTTACTT
GTGTCATGGTACCT

Table 1

Sequence 976

[illegible]

Sequence 977

ACCCACTATAGGGCGAATTTTNNAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTCTG
GGTGGGGGGCTGGGGGGGGTNCGCCGACCGTTTTTCTCTCCGCCAGGTGCTTTTCTGT
CAATTTCTATGGAATGCAAAAGGAGGTTTTTGTTTTATTTTGTTTTTGTAAAGCTTAA
GAAAAAAACACATCTTATACTTGAGCTCCATACTTAAAAAAGAAAAGAAAAGAAATC
AATAAAAAGAACTGGGGCGCAGTT

Sequence 978

GGCCGCGGGGGCTGCGTAACCATGTTTNCATGAAACAAGCCAGCCANTTTGAGGNGTGCT
TTTTGAGTGTAAGGCCATTATCATGGACTTTTTCCCAGCTGCAGGGTATCTACAACCTC
CGGGTGGAAGGTCAAAGATTGGAAGAGGATGCTCTGATCCTGGAATGCATTGCTTGGTGG
TCAGGAGGGGTTCTTAGTAAGCAAACTCAGTTAATCCGAGATCGGAAGTCGGAAGGGTGCTAA
CAAGCCAAAGCAACATCCTTTAGCTCTGCTGCTTTTTTGCTTGCTGGAGGAATAGCCA
ATGGAAGAAGATGGAGAGTCCGGACCAGAAAAAAAAAAAAAAAAAAGTACCTGCCCGG

Sequence 979

GGTGGCGGCCGCTCTATAACTANGNCCACACCCTGNTATTCTGCAGGTNGCCTTTTGCA
GCTNCAGGCNNTATGGAACAAATGAAGGTCNATGTCGACTCTAATAGAAGTAATNGTNGA
NNGGTGTTCTTCACATCCACTCTGTTNNTGATTGAGTTAGGCATCTCTTCATGGTAAA
ACCTTTTCATTAAACACAAAGAAAGCTTTTTTTTTTTTTTTTTTTT

Sequence 980

GAATNGGAGCTTTTCGCNGTGGCGGCCCGAGGTACAATAACTNGCCTGAANTTCTATGGC
AACAGGCATTTANTNAGCGGAGCGGTTTTATGGNCTCATCTGTATCTGGGATGCAAAGAA
ATGGGAATGCCTGANGTCAATTAAGCTCACAAAGGACAGGTGCCTTCTTCTATTAC
CCTTGGCAAGTNGGCCCTGTCAAGTTGGTACCTGCCCG

Sequence 981

TAAAAATCACGTCACTATATAGGCACTGCTGTATGGAAAAACGCATTTTGTGTTTCTACAA
ATTGTAAGCGGAAATGCCTTTTTCAGTACCGCGGATTTGGATGATNACGAATGGTTTTTA
CGATGTCNCCCTCTTTCTTCACGCCNCCCTTTTTTCTCTATTAATCANGAAGAACTCA
AAGTTAATGGGATGGCCGGATCTCACAGGCTGANAACCTCGTTCACCTCCAAGCATTTTCAT
GAAAAGCTGCTTCTATTAAACCATACAACTCTCACCATTGATGTGAAGAGTTTCACAAA
TCCCTCAAAATAAA

Sequence 982

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACGCCTTGCCAGACCAGA
GTCAGTTGTATCATCTGGGGCAAGTATGAGGAGAAGCTCAGATTACCAGGCACCTCAT
TGTGAACATGCTTTCTGCAACGCCTGCATCACCCAGTGGTTCTCTCAGCAACAGACATGT
CCAGTGGACCGTAGTGTGTGACGGTCGCCCATNTGCGCCAGTACCTGCCCG

Sequence 983

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGNCCTTTTTTTTTTTTTTTTTTTTGT
TCTGAAGTTTTTCCCATTATATATCGTCAATATCATCACTCATTTGAAAAGTAGGAATG
TCCAAGTTGATGTCCTGACCCAAAGCGACCCAGGTTTCCCAAGGATTCGTAATCTCTTTGG
AGCTGACCTATAAAAGCAAAAGAGTTACTGAGAGTCACTTTCAGGAAAGCTGGGTGG
GACTTCTTTGACTCTTATGCTTACCTTTGAAGAAACATTGAAAATCAGAAGGAAGCTGG
CTACAAATTTACATGGAAAGCTCATCTTAGGGGTTGGGTTCTCTTTGATTCTCCCCGC
GTACCTGCCCGGGCGCGGCTCTAGAAGTANTGGGATCCCCCGGGCTGNNAGGAATTCG
ATATCAAAGCTTATCG

Sequence 984

TCGAATTGGAGCTCCCCGCGGTGGGCGGCCGAGGNCAGAGCCGCCAGGCGACTCAATTCA
CGCGCTCCTTTTCTGGGGATGAAAAGGTNCTACCANATCTTTCTATGCAACTGAGAGCT

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[illegible]

Table 1

TGGAATAGATGCTGGCAAAGCAGTTACTCTTCAACAGGGCTTCAATCAAGGTTATAAGAA
AGGNANANGTCANTNTANACTATGGACNACTCCGAGGAACATTGAGGTAATTTTAAAGT
CTAAATGCTGAATCATTTTAACTCAATACTACTGGAGGATGTTTCTGTATAAATAAAGT
GTTTAAACTGAAATGCTTTTCCCTGGTGCTAAATACACTAAAGCGTGTCGCAGATCATAGA
ATTATATTGCCTTCAAAAGGTCAAAATCNTNATNAGNCTCATCTACTTTAATGTGTGAAC
TACAATATTGTCTTTTTCGTGCAAAGAAATGGTAAAGAAGATGTATACTTCTGCTACCTGA
ACAATTATCTATCTCATTGAAAGGTCTTCAGATTTTGA

Sequence 995

GAATTGGAGCTTTCCGCGGTGGCGGCCGCCGCGGCGAGGTACGCGGGGTTTTAGCTTTTT
AAATCTGCTTTGGTATACTCCATANNNTTGTGCCATTGGATTATTCTGTTCTATAGAA
ATCCCCACTATAAAATGTAAACCAGACAAACTTCCATTATTCAAACGGCAGTATGAAACC
ACATATTTGTTGGCTCAAAAAGTGCAGATCCTTGCTGTTACGGTCACACCCAGTTTCATC
TGTTACCTGACAAATTAAGAAGGGAAAGGCTTTTGAGACAAACTGTGCTGATCAGATAG
AAGTTGTTTTAGAGCTAATGCTACTGCAAGCCTTTTTGCTTGGACTGGAGCACAAGCTA
TGTATCAAGGATTCTGGAGTGAACCCAGATGTTACTCGACCTTTTGTCTCCAGGCTGTG
ATCACAGATGGAAATGCTTTTCCTTTTCTGCTACCAGCTAAATACTTTGGCACTGACT
ACACAAGCTGATCAAAATAACCCTCGT

Sequence 996

CCGCGGTGGCGGCCGCCGCGGCGAGGTTACCGTGTGAGCATTTGTTGAATTNGCACTT
ATTGTTNAATTTAGCTCTGGAACAATGCAGGGAATTTGAAGTTTCTTGTAATAACCACA
ATTAGGAAAAACCATACAGCTCAAGGAAATCCACTAGTATANCCAAGATACCCTAAGT
TCTTCAAGAGACACAGANGGAGAATTATGCCAAAGGTAACATCACCACCAGAACGCGG
CCATCCACGTACCTCGGN

Sequence 997

CCGCGGTGGCGGCCGAGGTACGCGGGGGACGTTAGGTGTCCGCCGGAGGTGTCGTTGGTG
TGTTGCGGACTGGCCTTGAGGGAGAGCTGGGGCTGCTCCCGAGAGATACCGGCTATG
TCGATCGAAATCGAATCTTCGGATGTGATCCGCTTATTATGCAGTACCTGCCCC

Sequence 998

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTNCCACAGAAACCTGGCCAGGCTC
CCAGGCTCCTCANCTATGATGCATNCAACAGGGCCACTGGCATNCCAGCC

Sequence 999

CCGCGGTGGCGGCCGAGGTACTCACGCCTGGTCCGGTGGCAGCTCGCGGCGCAGCTCGTC
CATGGTAATGTAGTTCTTGTCCCCAGCCAGGATCTTGAAGGAAGCCATGACTTGGTCTGC
TGATCTGTGTGCGCTGTCTCGCGGGACATGAAGTCAATGAAGGCCTGGAATGTCACTAC
CCCCAGGCGGTTGGGGCCACGTGGCATCGATCCTCCCTGCCCGCGAAGTGACAGTTTAC
AAATTTATTTCTGCAAAAAAAAAAAAAAAAAAAGTACCTGCCCGGGCGGCCGCTNTAG
AACTA

Sequence 1000

CGGCCGAGTGTGGCTCTTCTGGTGTTCAGCTTGGGGAGAGAGGAGTGGCCTTCCTCTTG
CAGTTGAGGCCGGCGCCGAGCCGACTTCAGCCGATCTCGTGGCGGAGCCCATCTTGCT
CCCTCTCCAGGCCTTTATCCGCTCCCTAGGATTCCCGGGCCCTGTAGGTGGGAGTTGGGA
GACGACGTACCT

Sequence 1001

AGGTNCCCCTGCGCCAATCATCACAGCCTGGTNTGTATNAAGTGTGTGCCAACTGCCTG
CGCTAACNACCAAATGCAAATGTCATACNTCTNTGTCACTAGCANCATTAAGTTNCTNTA
GAGGACACGTTGTGAGCCACACCTNAAAAGACAAGCCTTCATCAATCTTTTCTGGAAGA
TAGCTTGACCTAGCAAATTCATTATGTTCAAAATAANAGNCTATCTTTCTTTNGTACNC
TGGCCCCGGNGCNGGGCNCCTGTTCTATNGAANCTAAGTTGNGTATCCCCCGGNGCCT
NNCCAGAGAAATTTCTTATTATNCAAAAGNCTTTNATACCNATTTNCCCCGGTCCGNA
CCCCTTTTGGAANGGGGGGGGGTGGCCCCCGGGGGTTAACCC

Sequence 1002

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTT
TTGTTTTAAAGTAGTATTTATTTCTCTGGGCTGTGCACACTTAAGGCATTAGATCCACA
GATGGGCTCATCCGCTGGGATGCTACTTGTGGTGTATCTCCTAAGCCCCACGTTTTAG
CCTTGTACCTGCCCG

Sequence 1003

Table 1

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTACCAAGTCTTACAGT
GATTATTTTACGTGTTCCATGTATCTCACTTTGTGCTGTATTAACCAAGTCTTACAGT
GAAATCTACGTTGTACGTGGGATACAGGTCACGGGCAGAGCTCCTGGCCTCAATGATGC
CTCCTGATCTATCGCTGGGCCTGGACGACCAACACTGGGATGATGACNAGCAGAATGGTC
ATGAAGATGCTCAAATCAGGGCCCANATGTTACGGCACTTGGCGGTGGAGGCATAGGCC
TGGGCCCCG

Sequence 1004

Sequence 1004
TACTATAGGCGCAATTNGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATTCTCTG
AAGAGGAAGCAGCTGGTTGGACAGGATTTCTTGAAGAGCCAGGTGCTAAGGGCATCAGGT
CGACATCCATAGTAACCATGTGCCATAACATCTACACATTTCCACTTGTTTTACAGACAA
GGTAACAGGCAGAAGGAAATCCAGAGTCCTGCAGTAAGCAGATGACAAAACTTCAATAT
GCTTGGGCCACCACTTAGGTGACCCCAGGGAGATTTAGTGTGGCCCTTAGGAAAGCAAAAGA
GCACCTTTTTATTGGAATATGAGCTTGTCACTGGGAAAGATTGTAAAAATTGATCAAGAA
CTTGATTATAATTATGCCTCAAAAAAAAAAGTTCTCATTTAGTAGTGGAGCAATCTAGAA
AACATAACCTTTTTTGT

Sequence 1005

[illegible]

Sequence 1006

Sequence 100b
ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCCGCCGCCCGGGCAGGTACTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTACTTTGAAATTACTTTAATTTAAAAATANAAAACATN
TTGAAAGGAAAAAAAAACCCACAAAACATACAGGCAGATTTGTATTCTGTGAGTTTCTNA
CACCCTCACACTTGTTACCAATNTNTAANATGAAAACTNTTTCCAAAATGTATTGAG
CCNCCAACAATGGNGTTATTAATAGGAATATGGATCAATTTACAAAANAANCCAATGAAT
CCCATTTTA

Sequence 1007

[illegible]

Sequence 1008

[illegible]

Sequence 1009

Sequence 1009
CCGCGGTGGCGGCCGCCCGGGCAGGTACATCTTCTCCGGCTGATAATTGCATTATGGAT
GAACACAAACGAGAAATTGCGGAGCTAAGCAAATTGTTAGAAAGCTTACGATGGTTGTG
TTGCTTCTGAAAAAATGGATGA/3CGATAAAAAAAAAAGAAAAAAAAAAAGTACCTnn
nn
nn
TTGCGCGCGCTTGGCCGTAATCATTGGTCATAAGNCTGTTTCCT

Sequence 1010

Sequence 1010
CCGCGGTGGCGCCGAGGTACCATGATGATGACCTGGCAGATTTGGTCTTTCCCTCCAGT
CGCAGAGCTGATACITCAATATTTGCAGGACAAAATGATCCCTGAAAGACAGTTACGGT
ATGCTCTCCCTGCAACACAGCTGTTGTACCTGCCCGnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn

[illegible]

Table 1

AATTCTTTTGACGACACCTTAAGGCTCTGGACTGCCTTGGGGACATTGCCAGGGGACTTTGTA
TATTGAGGTATACCATTTGGGGGAGGAAAGAAGAAAGTTTTA
Sequence 1017
ACGACTNCTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACGCG
GGCAAAACAGTTTTCTAATCTCAGCAGTATCCAGTGAGTGAAGAACACTTGACTGACTC
TTGGGCCACCTCTGTTACTTACTGTACTATGGAAGCTCCTGGTGAATGTTTACAATTATG
GGATGTAGTATTTCTATTTGTACTTTAAGTCAAATGCTTATATGAAATATGTGACAACAA
ATAGAGAAGACTGGCTCTGTTAGTAATTATGCAGTATGTACCTTTTTTTTTTTTTTTTTTT
TT
TCGAGGGGGGNGGCNCCGGCTACCCAGCTTTTTGTGTCCCTTTTAg
Sequence 1018
NTGAGGGGTAAATTTGCCGCGGCTTGGGCGGTAAATTCATTGGGGGGTTTTTTTTCCCCC
CCAAAAAATTTTTTTTTAAAAAAGGGGGGGGNGCCCNNTTTTTGGGGGGGNATTNNNA
TTTTTTNNTTTTTANAAACCCCNACCCTTTTTTTGGGGGGGNTTTTTTTG
GGGGGGGNNTTTTTTTTTGGGGGGGGGGNNAAAAAAAANGAAAAAAGGGGAAAAAANT
TTTTTTTTTTTTTTTTTTGGGGGGGGGNGNNTNTTTTTNNTTTTTTTTAAAAAAAAT
TTTTTTNTGNCCCCCNCCCCCCCCCGGGGGGGGGGGCCCCCTTTTTTTTTTTTTT
CCCCCCCCCAAAAAAAAANCCCCCCCCCCCCAAAAAANNNAAAAAANNNNNNTTTTTT
TNNNTTTTTANNNNNNNNNCCCCANNNCCCCCNAAAAAAAANAAAAACCCCCCCCCC
AAAAAAAANNNCCCCCCCCCCCCAAAAAAAANGNGAANAANGNGGCNCCCCC
CCCC
Sequence 1019
TGAGGATCCTGTGCGCATCGCAATGGACAGCTACTAATGGTCACAACGACCTCTTTCTC
TAATCCTTACTTTATACATCAACCTTCAGGTGGCTCCCCAAATGTTATACCAATCTGT
AAAATGCAATAAAACAAAAGACAAATCTCCATCACGTACAACATGAACTGAACAGCCAT
TTAAAAATTCAATGGGTGAGAACTTCTTGGACCTCATTGGCTAGATTCTTTCTTAAAT
CCATACACCCGNAATTTACAGGGAAGGTTCCCCATTCTTGAAGGAGCAAACTTTCAG
NATGGTACCAAGACCTTGGAGNTGAAAAATTATTTT
Sequence 1020
NATACCAGGCGTTTCCCCCTGNNAAGGCNCCCNCTCGTGGCGGCTTCTTCCATTTGGGGGG
TTTTTTNTTTTTTTNCCCCCNCCCCCNCGGGGGGNGAAAAAANCCCCNCGCCCCC
CTNCCCNNTTTTTTTNNGGGGGGGGNNNNCCCCCNAGACCCCCCGGGGGGGGNNNN
CCCCNTTTTTTTTTTTTTTTTTTTTTAAAAAAAACCCCCCCCCCNCCCCCGGGGGGG
GGGGGGGGGGGGTTAAAAAAAATTTTTTTTTAAAAAAAATACCCCCCATCCCCCT
TTTTTTTNNGGGGGGGNNTTTTTTTTTTTTTTTTTTTTTCCCCCCCCCCCCCGGGGGGGGNGA
TTTTTTNTNTCCCCCCCCNNNATTTTTTTNAGAATTTTTTANNATTTTTGNNAANN
CCCCCTCTTTTTTTTTTTTTTTTTNTNNNAANNNGCCCCCNNTTCCNNNNATTTTTN
TTTTNATTATANTANCCCCCCCCCNCCNATTTNAGGGNGNTTTNTNNGNTTTTTANA
AAAAAAAANAAAAA
Sequence 1021
CCGCGTGTGCGGCCGAGGTACTTACAGGGGACCGCCAGGGGCTCGAGAATCGGTATCCT
GAGTCTCTTGAAGAGCAGTAGAGGTTGTTTCATTAAAGTGGCAAACACACTTAGTTGCTT
AATTTGAAAAACNGGGGGGACACNAATACNGGCANCTCGCGNNGGGGGGANGGGGGNTTTT
AAAAAATTTCCCCCGGTTTTCTNAANAAAAAAAACCTTTNANNCNTATAATAA
ATTTATTTTTTTTTNAATNTNGGNCCCCCNACCCCCNAAAAAATNTTTTTNTATTT
TGGGGGGGGGGNCCCCCTTTTTNTAANAATANAAAAAACNCNCCCCCNCTTTTTT
TTTTTNCCTNTTTTTTTTTTANAAAAAANGGATTGGGNAAAAAATTTNTTTTGATT
TTTTTNNCCCCCTTTTTTTTAAACCCCTNNGGGGGGGGNGNGGGGGGNGNTTTNNCCTC
NTTGNCCCCCCCCNAAAAAANAANAACCCNCTTTTTTTTTTTTGGGGGGGGGNGNNGG
NGGGGNGNANTANAAAAAANGGGGGGGGGGNTTTTTTTNTNNTTCCCCCNCTTTTTT
TTTTTNGGGGGGGAATAAAAAAANAAAAAANAAAAA
Sequence 1022
ACTTAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAGGACCTNTAACTCCCC
CTGACACAGAGCAATTAGACTCCCATACAATGGTATCAATTATACCACTCCATTGGAGG
GACTTCCTTTATGTGTACCCAGGATAACATTGCTCACTGCAAGTTGGCTTTGGGGGGG
CCCCAAAAAAGGGGGGNTTTTTTTTTTTTTTTTTTTTTGGGGGGGGGAAAAAANTTTTN

Table 1

TNCCCCCCCCCCCCCCCCCTAAAAAAAAAAAAAGGGGGGNNCCCCCCCCNAAAAA
ATTTTTTTTTNGGGGGGGGGGGGGGGGGTTTTTTTTTTTTTGGGGGGGNAAAAAAA
AGGGGGGGTTTTTTTTTTTTTANAAAAAACCCCCCCCCCCCCCAAAAAATTT
TTTTTTAAAAANNAANAAANTNTNTNAAAAANNNGNAAAAAGGGGGAAAAAANTNAAA
AAANCCCCCNAAANNNTNTTTTTTTTTTTTTTTTTNAAAAAAAATTTTTTTTG
GGGGGGGGGGGGTTTTTTTTTTAAAAAAAACCCCCCNTTCCCCCCNTTTTT
TTTTTGGNNGGGGGGGGNNCCCC

Sequence 1023

CCGNCAGGNACTTGACCTTNATCTNCTAACCATTCTTTATGTCATCAAGAGTTGCATC
ANNCGGGAAGCCTTTAATATNAACGGATCTGNNNTNTACATCATTCTATACTCANCAG
TTTCACCTTTCATAGTTTAGTGGAGTTTTTTTTATTTTTGGGGNANAAACNCCCCCN
NCTTTTTTTTTTTTTNTNAGGGGGGGGGGGGNTTTTTTAAAAAGGGGGTGNAGNA
AAAAANNGNCCCCCGNAAACCCCCCTTTTTTNNGGNTTTTTGNCCCCCCCCCTTTT
TTTTTNGGNGGGGGGGGAAAAAAAAGNTTCCCTATTTTTNGGGGTNTGTNTTTTT
AANAANAAAAAGGGGGGGGGGGTTTTTTTTNTTTATNNANTNTCCCCCGTNTTTTT
GNAAAAAAATNNTTNTTNGGCCCCCCCTNTTTTTTNNNNCCNGNGCCCCCCCCCN
AAAAAAAANCCCCCCCCCTTTTTTTTTTNGGGGGGGGGGNTTTAAAAANAAT
TTTTTNTAGNTTGTNTAGNTAAATAAAAAAGAGGNNCCCNNTTGCCCCCNANAA
AAAAAAAATTTTTTTTTTNGGGGGGGGNNTTTTAAAAAAAANNGGGGGGNTT
TTTTTTTTTTTT

Sequence 1024

CCGGCAGGTACTGACCTTGAAGCTAACCCCTGAGTATGATGCAACTCCACTCTAATGT
AAATTAATGCCATGATCTTAAAAATGCCATAATNTGTGAGGTATAATTTAATTTT
CCAGGNTTNAAGTTTCCCAATCTTTTTTNTCCCAAAAAAACCCCCCNAAAAA
AATTTTTTNTTTTTNTTTTTTAAAAAAGGGGGGGGGGCCCCCCCAAAAAA
GGGGGGNTTTTTTTTTTGGGGGGGGGNTTTTTTTGNGGGGGGGGNTTTTTTTGGG
GGGGGGTTTTTTTTTTCCCCCTTTTTTNNGGGGGGGNTTTTTTTGGGG
NNGGGGGGNNATNTNTTCCCNNTTCCCCCCCCGGGGGGGGGTTTTTTTTNCCCC
CCTTTTTTTTTTNCCNCCCCCCCCCTTTTTTTTTTNGGGGGGNNNNNNNNNN
NNTTTTTTTTTNGGGGGGGGNTGTTCCCCCCNGNGTCCCCCNAAAAAAA
AANGGGGNGGGTGGNCNCCCCCCCCNAAAAAAAATTTTTTTNNNTTTTT
TTTTTTTTTTNNNNNNCCCCCCCCNAAAAAAA

Sequence 1025

CCGGCAGGTACAGCACTGGAACCTCTTGAGCAGGAGCATACCCAGGGCTTCATAATCAC
CTTCTGTTGAGCACTAGATGATATTCTGGGGGTGGAGTTGCCCTTAATGANAAACCAAC
CAGTAATATTTGGTGGNTGTCACTCANNTTGGGGGGGTATTTTTTGGGGGGGNTTT
TTTTTTTTTTGGGGGGGGGGGGGNTTTTTTAAAAATTTGTAATNTTAAAAATNTN
AAAAATTTAAAAANNTCNCNCCCCCNAAAAANNTNCCCCCCCCAAAAAAAANAAA
AAAAATTTTTTTTTTTTTTTTTNAAAAAAATTTTTTTGGGGGGGGGNTTTTT
TTTTAAAAAAATTTTTTTTTTGGGGGGGGGGGNCNCCCCCNAAAAAAAAGNNGG
TTTTTTTTTTTNGGGGNTTGGGGGNATTTCCCCCCCCCTTTTTTTTTNTTCCCC
CCNNNAAAAAAAATTTTTTTTTTNGGGGGGGGGGNNNTCCCCCCCCCCCCCNNTT
TTTTNAAAAATTTTTTTGGGGGGGGGGGGGNTTTTTTTTTTAAAAAAA
NNGNNGGGGGGGGTTTTTTTTTTTTTNCNCCCTATTTCCCCCCCCCTTTNCC
CCTAANAAAAAAAAGG

Sequence 1026

TGGTCACTGGAACCTGGCCTGGGGATACCATNNTGGGCTCCTTAAGTTNGGGGGGGGNN
NTNTAAAAAANTTTTTTGGGGGGGTTCCCCCCCCNAAAAAACCCCCCNCCCC
CAAAAAAATTTTTTTTTTAAAAAANNGNGGGGTNNAAAAAANTTTTTTN
GGGGGGGGGNAAAAAAANCCTTTGNGGGGGGGGNTTAAAAAAGGGGGGNN
NGTCCCCCNNTTTCCCCCNNTTTTTNTTNGNNGTANTTTTTTTGGGGNTTATT
AAAAAAAANGGGGGNNGNTANCCCCCTCTCTCCCCCTTTTTTTTTTGGGGTGN
ATNTANATNTNTTCTCNCTNCCNNTTNCNCCCCCCCCNAAAAAAAAGTNGGGGA
NNNNGGNNNCAANNCTTTTTNTCCGNNTTTTTNTNTTTTTTANANCCCCC
CCNNTNTTTTTTNGGGGGGGGGGGGTTCCCCCCCCTTTTTTTTTTTTGTNNGG
NTTNAATTAATCNTTATTTTTTTTTTT

Table 1

Sequence 1027

CGAGCGGCCCGCCCGGGCAGGTACAGAGATAAGATACAAAGATAAAAAATGTTGGTATCAGT
TGATTTTGAAGCAGGTAATTACTGTGCCACCTCACAGTGCTCAAAAATAGTTCAGNNCCT
GGAATAGGGTTATNTCAGNCCCCATGCAAAATTTTTTAAAAAAAAAAAAAGGGGGGNTN
CCCCCCCNCAAAAAAATTTTTTTTTTTTTTGGGGGNNNGGGNNNNNGGGGNNNTTT
TTTTTTTTTTTTTNGGGGGGGGNGNCCCCCCTTTTTTTTTTCCCCCCCCCTTTTTT
TTTTAAAAAAAAAAAAAAAAANCCCCCCCCCTTTTTTTTTTTTTTTTTNGNNCCCCCN
CCCCCCCNNTTTTTTTTTTNTNCCCCCAAAAAAAAAAACCCCCCAAAAAAAAAANTTTT
TTTTTTTTCCCCNNCCCCCCCCCTTTTTTTTTTTTTTACTNTNTNNCCCCCCCCNNCNC
CCCNNNNNNNCCNTNNGGNCCCCCNNTAANNCCCCCTTTTTTTTTTTTTTANCNNN
NNCCCCCCCCCNNTTTTTTGGTTTTTTTTNAAAAAAAAAACCCCCCCCC

Sequence 1028

CCGGGCAGGTACTTATGTGAAAGGTAAAAAGATCTCATAGAAGTAGAGAGTGCTCATG
CCTCTAATCTCGNGCTTTGGGAGTCTAAGGTGGGAGGATCGCTTTGNCGGGCCTGNGTA
GTTTTGGTNACTCAAGNCTCTGNAGGTTNNCCCCCNAAAAAAAAAAAAATATCCCCC
CAAAAAAAAAATTTTTTTTTTTTTTGGGNTNGTNGCCCCCNNTTTTTTTTTCCCCC
CNNAAAAAATATTANNTNTGNTAAATTTTTTAAAGNGNNGAAATTTTTTTT

Sequence 1029

CTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACCACACCGAAAGTAAAGAAAGATAACA
GAACATCTTTGAATTTTTTGAGAGACAGACTTTGTTACTTAGGCCTGGAGGCAAATGGTA
TGATCTGGTAGGTACCAGGAGGTGAACANCTGGAACCAGGATTCACCAAAAAAANGGGG
GGGGGGGCCCCCAAAAAANANCCCCCGGGGGGGGNAAAAAAGGGGGGNGTTAAAAATTN
AAATTTAAANGGCCCCCCCNAAAAAATTTTTTTTTTNNTTTTTAAAAAAAAAAAGG
GGGNGNNNTTTTTNTTTTTTTTAAANCCCCCCTTTTTTTTTTCCCCCNNTTTTTT
TTTTCCCCCAAAAAACCCCCGGCCCCCCTTTTTTTTTTATNTCCNNNNCCCCCN
NCCCCNTTNNCCCCNTTNNCCCCAAAGNGGGGNTNCCCCCCCCGGGGGGGGGNAATTTT
TTTTTTTTCCCCCCCCNTTTTTTTTTTNTTGNNNCNNNNANCCCCCCCCCTTTTTT
TTNNTTTTTTNNNANCCCCCCCCCGGGGGGGGGTGTTTTTTTTTTCCCCCCCC

Sequence 1030

TAATTCAGGGGGGATAACCGCAGGNAAAGNAACCATGNTGGAGNCTANTAAATTGAAAA
NAAAAAAGGGGTTTGGGGGNTTTTTCCCCCTTTCCCCCTAAAAAANGGGNGGNGCC
CCCTNTAAAAATTTAAATANNNTAAAAATTTAAAAATGGGGGNNNTGGGGGGGGGNTT
TNCCCCNTTTTNNCCCCCAAAAAAANGGGGCGGGGGGGGGGGGNNNAAAAAA
AAAAAAATNCCCCCCCCCTCCCCCCCCCGGGGGGGGGGNTTTTTTTTTTANAAANT
GTNAAATTTTNAAAAAANTNAAAAAATTTNAAAAAAGGGGGGGGNGGGGGGNTT
TTNNCCCCCTTTTTTCCCCCCCCCGGGGGGNGNNTATANTCCNCNNGGGGGGGGGG
GNGANNTTTTTTTTANANTTTTTTNGGGGGGGGGGGGNATTCCCCCCCCNTTTTTT
TTTTTTTTGGGGGNATTGGGGAGNTTTTTTCCCCCCCCCGGG

Sequence 1031

CCGCGGTGGCGCCGAGGTACCACCTGCTCCTCATCTTAGGAGTCTCCTTTTCAATAAT
TAGGCTCTGTTCCCATTTTAAACTCTGATATTGGCCTTCACCTGTGACTGGACACCTTT
ACNTANGAGGCGCCATGTTTCANCTATAANCAANTATAGAAAAGAAAAATTTTTTTN
NCCCCNTTTTTTNAAAAAAGNAAAAAGNAAAAANTTTTTTTTTNTNAAAAAAGGAAA
AAAGGGGAAAAATTTTTTTTTTTTTTTTTTGGGGGGTTTNGGGGNTTTTTTAAAAA
AAANAAAAAANGGGGGTTTTTGGGGGGGNNTTAAAAAANNTTTTTTTTTT
TTTTNAAAAAAANAAAAAANCCCCCCCCCNAAAAAANNNNAANAGGNCCCCC
CCGGCCCCCCCCNAAAAAAACCCTCCCGGGGGGGTNGTAAAAAANNAAAAAA
ANNNTNTNTNGGGGGGGGGGNTTTTNAAAAAANTTTNAAAAAANNTNAAAAAA
NGGGGGGGGGGGGTGGGAAAAAANNNAAAAANNTTTTTTTTTTTTAAAAAA
AAAGGGGGGGGGGGGNAAAAAAAGGGGGGGGGGNTTTTTTTTTTNTT
TTTTTGGGGGGGGGGGGGGGGGGGGGG

Sequence 1032

AGGTACNCGGGGNTTAAACGAACGGNTTGGGCGCGGACTGGTATCCGGGGACTGTGA
CTTGACGGTCCGCCATGGAGCCAGANCAGATGCNTGGAGGGGTACAAACGTCAAGGTTT
TGTCAAGTAAAAATCCTTACNTCTGAAAAANGNGNGTTTTTTTTTTNAAAAAATTNC

Table 1

CCCNNAANCCCCNTTTTTTTTTTGGGGGGNNTTCCCNNTNATCCCCCTTTCNCCCC
 CTATGNGTGNAATNGGGGNTATTTTTTTTTNTTTCNCCCCCNGGGGGGGGGGGGGGGGNG
 NGNTNTTTCNTATTNNCCCCCGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG
 CCCNTTTTTTTTTTAAANAACAAGGGNGNTTNGTTAAAAAANCCCCC
 CCCCNTTTTTTTTTTAAATAAAAAAGGGGTTTTTTTTTTTTTNGGGGGGGGGGGGG
 GGAGGNTTAANAAAAAANATTTTTTTTTNTNTTANCCNTTNTTCCCCCCCCNCTA
 TATTATTTTTNTTNTGAANTANGNTCCNCCNNNNNTGTTTTTATTNGAGGNATTA
 TTATTTGGTNTATTTANCCNCCCCCCCCCNCNTTTTTTTTTTNN

Sequence 1033

TGAACCTGTGCCAGGACCCACTGCCACTGGAACNCTGGGCTGGNGATACCCAGGTGGNC
 CCCTGGTTGGNGGGGNTAAAAAATTTTTTGGGGGGGGGNGNCCCNAAAAANCCCCC
 NTCCCCCAAAAAAANTTTTTNTAAAAAAGGGGGGGGGGAAAAAATTTTTTT
 TGGGGGGGGGNNAAAAAANNNTTTTTNGGGGGGTTTTTAAAAAAGGGGGGNTG
 TNCCCCCGCCCCCCCCCTTTTTTTGGGGGGTNNNGGGGNTTNGGGGTNTNTAAAA
 AAAAANGGGGGNGNTTNGCCCCCCTNNCCCCCTTTTTTTTTGGGGGATNNNNNNATTN
 TCCCCCCTNTCCCCCCCCCAAAAAAAGGGGGNNNNNGGGGGNNNNNNNTTTTTT
 NNNNTTTTTTNTNTTTTTNNNNNNCCCCCCCCCTTTTTTTTTGGGGGGGGGGGA
 NCCCCCCCCCTTTTTTTTTTNGGGGTNNNNNGGNNNNNNNTTTTTTTTTTAA
 AAAAAANCCCCC

Sequence 1034

ATGAANNCTGGNCCTGGGGGATACANNNGGGGNCNTCCCCCCCCCTTTTTTTNGG
 GGNGGGGGGGGNTTTTTTGGGGGGGGGGGGGGGTANAAAAANTTTTTTNGGAAAA
 ACCCCCCCNAAAAAANNNCCCCCTNCCCCCCCCAAAAAATTTTTTTTTTA
 AAAAAGGGGGGGGNCNAAAAAATTTTTTGGGGGGGGGNGNAAAAAANNNC
 NCCNGGNGGTTTAAAAAANNGGGGNGGNGGNNCCCCCNNNNCCCCNTTTTT
 TTTTTTTGGNAAAAAATAGGGGGTNTTTNAAAAAANNGTNTNTTT
 TTTNNCCCCCNNTAACCCCNTTTTTTTTTTTTTGGGGGGGNTTNNAAAAANTT
 ANNNNNNNCCCCNTNNNTNNCCCCCAAAAAAANAGGGGNGNNNGGNGANNANA
 NNNNNNTTTTTNNCCCCCTNCNNTTNTTTTTTTTTTCCCCCCCCCTTTTTTTTT

Sequence 1035

TCGANGTACATGGGGGTCCGTGCGGGCANAACCCAGGGCATGAAGATCCAAANGGGCCTG
 GTTCAGCTTTTTNTCCAGGGCCATGGCAGCTTTTCATTGGCCTTNTTGAAGTTTTTAN
 CCCCCAACCTACATTCTTCCAANCTTGTGTCATTTACCCCTTTTTTTTTTTGGGG
 GGGGTTTTTAAAAAATTTTTTTNGGNGNNAATTTTTTTTAAANNCCNTTTNCC
 CCCCNTTTTTTTTGGNGTGNTGTGGNNNTNTTAAAAAANNAAAAAAANGNGGT
 NTNNGTTTAAAAAANGGGGGGNGTTTAAAAAANGGGGGGGGGCTNCCCNCCCCNG
 GTGGGGGNTNCCCNANGNGNATANTGGGNTTGTTTTTTTCTAATATNTCCCCCNGN
 GGANGNGGANNCCTATTTTTTTTTTTNCCCTTTTTTTTTTAAAAAANAGG
 NTGGTTNTTAAAAAANATAAAAAAATCCCCCCCCCTTTTTTTTTTAAATAAA
 AAAAAATGGGGGNTNCTNTTTTTTTTTNGGGANGTTTTATNGTATTTTTTAAAA
 AAAAA

Sequence 1036

CCGCGGTGGCGGCCGAGGTACCCCATGCTGTGGCACGGCTTCAGCTGTGATTGGGTTAT
 TATACCCCTGCATTGACAGACATCTAGGAGAACACATAAATTTAAAGAGAGTGGTCCA
 GTTGTAATGCCGGTGGTGTAGNCAGTCTTTTGCCTTTTGGGGGGGGGGGGTTTTTTA
 AAAATTTTTTTNTAAAAAGGAAAAAGGAAAAATTTTTTTTTNCCCCCAAAAAATTT
 TTTTNGGG
 NGCCCCCCCCNTTTTTTTTTTAAAGNNAAAAAANNAAAAAAGGGGGGNTTTTTTT
 TTGG
 CCCCCGG
 CCCCCCNAAAAAANAAAAAANAGNCCCCCCCCCAAAAAAATTTTTTTTNN
 AAAAAAANACNCCCCCCCCCAAAAAAANGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG
 NNTTTTTTTTNGGGGGGG

Sequence 1037

AGGTACAAAAATTAGCTGGGCATGGTGGCGCACAACTGTAGTTCCAGCTACTCAGGAGGA

Table 1

Sequence 1038

Sequence 1039

Sequence 1040

Sequence 1041

Sequence 1042

Sequence 1043

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Table 1

[illegible]

Table 1

A

Sequence 1051

ACACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCCAACATATAT
TTTTACGAGGGTTATTTTGATCAGCTTGTGTAGTCAGTGCCAAAGTATTTAGCTGGTAGC
AGAAAAAGGAAAAGTATTCTCCATCTGTGATCACAGCCTGGGAGACAAAAGGTCGAGTAA
CATCTGCTTCACTCCCCGCGTACCTGCCC

Sequence 1052

CGGGCAGGTGGCCGCCCGGGCAGGTAAGTCTAGTGTATCGGTTGAATAAATAGGCTGAT
AGTTTCGATGATGATTAAGTATGGGAATTAGTGAGATGGGGGTTCTTTTCGGTNANGAAG
TGGGCTAA

Sequence 1053

CGGGCAGGTACAGATACTTGAAGCAATTCTGCAAAGACCCTGAGTTTTACAGGGCTGGT
TTTGGCTATCGTAAAAAACAANACACGCACACACACACCTATAGTTTTCTGCT
TGCCATAGGATCTCTTTGGGAGATGGACAACCCTNAAAGGCACTGATTTGGTTGACATT
GGTAGCTCTGGTCCTTACTCAGGCAGCCAGCTCATCCAAGGCCCGGTCCAAGGGATCCAC
TGACCAGTAGTCATTATCCCAGCTCGAGGAACCCAGCCCAAAAGGAAGGAGGCCTNAAAA
GCCTTTGCCTTAACCAGAGTTGATGGGGGGTCC

Sequence 1054

GGCCGCCCCGGGCAGGTCGCTCGTGATCTAGATAGTGAGCGGACGCGTGGGTCGACTCAAG
ACTTTTAAAGATTTATCAAAATTTGGTGAGCCGAATCTCAGAAAATTTGGTGAATTCGGTT
AGTTCCCAATAGGCCGCACTAGTAATAAGTGGAGTGTTCCGGATATANAAAAATTTTAC
GAATGGAATNAAAAATTTCTAGGCGAATTCAGTGAGTTCCCAATGGGACATGATTGTATGA
GTGAGCTTTTCAATATATAGCAACATTTTAGGTTCAAAAACTTAAAG

Sequence 1055

CGGCAGGTCTTGAGTCGACCCACGCGTCCGCAAAATCTAGCCAGAATAGCCAGACAAAA
AAAGATCTAGGGGATACAGAAAGGCAAAAGGAAGTCAAAATATCACTATTTACATATGAT
ATGATAGTATATTTTCACTGATCCCAAAATTTCCAGNCGGAGAACTCCTAAACCTGATAAAC
ACCTTCAGCAAAATGGCTGTGTAAAAATTAACCTCAAATAAATCAGTAGTCTTCATCTAC
AGAAAAGACAAACNAGCCAAGGAAAGGAGATTAGCGAAAAGACACCCTTCATAATAG

Sequence 1056

AGGTACCATGTTTACGTTAAAATGCCAAAATGTGGTGCCTTCAAAGAAACAGTCAATGA
AACAGAAAGCAAAAATAAGCAGAAAAATTAGAAACGTTATTTGGCATCATGAAGGGCAACA
CCAAATTTCACTACTAACTGCAAGGATTGATAAACACCATGATTTTCAATTTGAAAAAA
ATGGAAAAGTCTAATGCACAATGTTAAGAGATCTCCATGAGAACCAGGCATTATCCCA
TATAGCAATGATTTAATATTGTTACCAATTTAGGAAAATGATTTTTTGATAAATGGGCT
ATTGTAAGATATACCTTTTTATTTCTTAGGAGCATGTGACCTGCATACGTAAACAG

Sequence 1057

AGGTACAGAGCCAGCCAGTGTTGGGCAGCAGGCTCACAGCCTCAATAGGGAGAAAAGACA
AAGGCCTCAAAATGACAGGCAGCCTGACAGAGGAAGGAGTCTGACACCTCAGCTTGAGGC
GTCTTTGGAATTCCTAGCTCATCTCAGAATTATCTTAGAGTGATAATATGGGGTGGTA
GCCAGTGGCCAAACAGCAAGAATAAGAGTGGGCCCTTGCAAAAAAAGGTTGGGAAAGCT
GGGCCCATATTGCCTGGTAAACCCTTGAGCCTGATGCTCATACAGCTGTCCCTGTTTTA
GCCAGGTCTTGACAGAAGGGTTACCAGCA

Sequence 1058

AGGTACAAAAAGTCAAGCCCTGAAGTAGTTTTTCCCCCAAAAGTTCTGATGTTAAACTT
TAAAAAAGAGAGAGGTAGTGTGTAATAATTTTTTACTTAAATGTTGAACCC
TGCACCACTTATATTATAAATGAAAGTTAACCTTCTACATACTAACAT*ATTTGCCATT
CAAGAGTCAAAATTTGTAAGACTCACAGAATGTTAAAGCCGGAATGCCATTAATAATAGCA
TATAAATGGAAGAAGTTCGGTGAATTCACAAAAAGTACCTCGGC

Sequence 1059

CCGGCAGGTACTCAGTATAAAGTCCAGATGCCTTTACCATGACCTGCAAGGTTATACGT
GGTCTGACCCATGCATTTCTCCGTGACCTCATCTTATACTCCAGGTTCTCTGTTTTACT
CATTCTTTCCAGCCACACTAACTTGCCGATCTTAGAATATGTTGAGTTCATTCTAGCC

Table 1

CCAGGTCTTCAAATTCCTCCTCCTTCCTGAAATAGTCTTCTCCCAGATTTTGGTGTGG
CTCTGTACCT

Sequence 1060

CCGGGCAGGTACGNTGGGGGGAGGATTGCATTCAGTNTAGTTCCTGGTTTTNGGCTGAAA
TAACCTGACCGAGAGCATCACCCCTGAACATGGACTTGCAGAATCCACAGAAGAGAGG
AGACTGGCCTAGACAGACAGCCAGAGCTGAGGGCCCAACAGGCTTCTACCCTGGATGCT
GCTCCCATGCCCTGACACGAGGCCCCTACTACAATGCTCTCCAAAATGTCCACAAAAGTGAC
TTAAGTCAGGTTCCCCCAAACCAGACACCAAGACAAGAATCCATGTGTGTGTGACTGAAG
GAAGTGCTGGGAGAGCCCCAGCTGCAGCCTGGATGTGAAGTCAACTCCAAAAGTGTGTC
CAGACTCAAGGCAAGGGCACTAGGCTTTCAGACCTCTACTAAGTCATTGATCCAGCACT
GCCCTGCCAGGACATAAATCCCTGGCACCTCTTGCTCTCTGCAAAGGAGGGCAAAGCAAC
TTCAGGAGCCCTTGGGAGTCTCCAAAAGAGTCTAGGGTACCTN

Sequence 1061

CGAGGTACCTTCATGCTCTAAATCAGATGATCTACTATCTGAAAAGGAAACGACAAATCT
GACAAACAAANGAATTTCAACACAGATAGGCAGTTGATAGCATGAGGCACTAACATTAAAC
CCAAGTCTTTCAATGGCACTTGAGTCCCAGGGTCTGCCCCG

Sequence 1062

CTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAATTATAGCGACATACAC
AGAGAAATGCAGTTAAAACTCTACCTGTGATACATGAAAGCTTCAGGGGGCTATATATAG
CCAACAGTAATTGACTATTACACAAGAACCAGAAATTGGACCTTGAAGGAAATATTCT
ATCTGGAGATTAACACAACTACTTAGTAACAAAATGAAGTATAACAAACATTAAAGGAT
AAGTAGTCTTCTGTGGTAATAAACTATCATTTTGAAAGGACAAAAGATTATTTTTAAC
CCTGCTTAACNTTATGNGTAACTACATTCCAATTTAACAGCATTAAATTAAAGAAAA
GG

Sequence 1063

GACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGCACACCAGGAG
AGAAGATCATTATTAATGTGCTAATAGCAGCATTTTATTTTGAAACCCACTCTGCATGGT
TACAGGGCTCAAAACAACATATTCTAACAGGAAGATACATTACCGAAATATTTAATGAG
AATATTTAATATGCATTGAGAGGTCCGCATTTTCTTGACAGAGACCTTGTAAGGTAGCTCTT
TGAGATTTCTGTCTCTATGCATTTAAGTGAAGGAGTTGGTTGGGTATTTAGTTGGCAA
TTTTGCAGACATGTAGCTTTGGTAGTGGAGGGGTAATAGTTACNCTGCCCGGGCCGGCC
CGCTCTTNGGAANCTAGTGNGNATCCCCCGGGGCTG

Sequence 1064

TATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACCCCTTTTAAGT
TTGCTTGGCTTTCTCAGATTCTGGTTTCAATTAACATGCTTATGATTTTCTGGGTTTGCA
GGGCAGATTAGTAGGCTTTGGTGTGGCTTTTTCTTCTTCTTCTGCTTTACGCCGT
TTGGGTTGATGCATCTGTGTACCT

Sequence 1065

CCGCGGTGGCGGCCGCCCGGGCAGGTACTGAACTAGCTCCTTCTGGTTAATTTGTTGATT
GGATTGGAAATTAGAACATGGAGCTGGTCAATGCACGGTATCTGGTAATTGTGGATGGGG
GAGATGACTGGGGCAGAACTGAGCTCATTTTTGCCAACATAGTACCT

Sequence 1066

CCGCGGTGGCGGCCGAGGTACCTCTGTGGAAATCCCTTCCCTCCAGAAGCCTCCACTCAC
TTCTGATGCCAAGGAGCTCTGCGGCGCCCTGCACGCACCTTTACAGATGCAGGTGGCTGT
TTCCTGTGTGAGACTGCAAGCTCCCGTGAGCTGGGTTTCATTGCTCATCGTTGACTTGGCC
TCCCCGCGTACCTGCCCCG

Sequence 1067

CCGCGGTGGCGGCCGGTGCCCACTGGGCCAGGGTAGTCATCCTGAAATACATGTCCAGG
GTCTTGTTTGTCTATGATGTGGGTGAAAGCTGCCTCAGCCCGCACCACAGTAGAGAGCGG

Table 1

GACCACTCACGAAAGTTTTAGCAAACCTCCAGGGTCTAACCTGAAAGCAGCCAGGAACA
AAGACCTTTCCAGAAAGAAGGACATGAACAAACGCTTAAAGAACGACCTGGGCTGCCAGG
GTAAGAACCCTCAGGAGGCCGAGAGTTACTGTGCACAGTACCT

Sequence 1068

CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGCTCTTGTTAATTCATTCAATAAA
CACACACAAAGCCCCTCTCCTTCCTTCAGACCCTATTAATTCTAGTGTAAGAGAGATGG
GTGATGTTCCACAGAAGAAGCTAAGTTGGACTTTGAAGGATAAAGAGACGTATGGGAGGA
AAAGGCAGGAGGTAGAATTCTAGCCACAGGAAGAACCAGGTGAGAATAAGCTTGAAGATG
TTTAGGGGAGAAGGAGTTGTCCCTTAGCCTTGATCCTTAGAAACAGACGTAGAGGTAGAG
GAAGCTGTGGCTGCAAAGGCAGTAGGCAAGAAAGTGAAGCCAAACGCCACCCAAGTGGA
CTCTCATGCCCTCTCTAATGTCAGGATATGTTTACAGCCAGCATGATTTCCATATACAT
TCCTCCTTCACTTC

Sequence 1069

AGGTACTCACTTATAGATGGTTATTGGCCAAAAATACAGACACCATGCTATTATCCACAG
ACTCAGAAAAGCTACACAAGAAGGAATGCACAAGTGAGGATGCCTGAATCTCACTTAAAG
GAGTGCATAAAGCAGTTCCTAAGAGGAASACGGAGGGAGTGAAGTGAATAGAGAAGAGAT
ACGGAGGGCTATGGGATGGGTTTGAATCAG

Sequence 1070

CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATACGCGCATTTGT
GTGTGTGTATCTATGAGAGGGGGAATTAACAAATTACATGGATTTGTGTATGTGTGTGTG
CCTAAGAGACAAGGAAGGAAAACAGTGCAGTTGAGAAAGGTGAAGCAAATGTGGCCAAGT
ACCTGCCCC

Sequence 1071

AGGTACTTTTTTTTTTTTTCTCTGAGGGAGATGGATAGGTGAAGTAATGGTTGACAAG
CATAAGTGGGAAGCTTCAAGTCCCAGGTTCTCCCATCAAATCATTTTCTCACAATCTTGC
TCAGTATTCTCTCTAGTAGGCCANAATTTGAAGGATTAGCTCTCTGTATATCTAATCTA
AATCCTACTCCTTGTTTTAAGCTCTTTGATTTCAAATATTAATGATCTGGTACAGCATCG
CTGGTGGTTTCAAAAAACGTAGTCATTCTCTCACTGCAACAATGTAAGATAAGCAGGGT
AGATCTGTTATTTCCAAATTAAAGGTGATTAAGATATATGGAGAGAGAACATGGCATGTT
GAGGTTTATAGGGCTAGAA

Sequence 1072

AGGTGCTAGCTTGAGTCGACCCACGCGTCCGCTCAAGGAGAAGGAAGACCAAAGTATGCA
GGAAGGACCCTAGGGCCTTTCACCAGCTTACATCCACCCACCTTGGGCAAGGATAGGTTA
GATTCCAGTTTCCTGCCTCCCGCCATGGCTAGGCATTCTCAATCCACAGGAACATTCTTG
AGTAGACATTCCCAGAATGATCTGACTGATGCTTGCTAGCCAATAGATTTAAAGGTTAA
TATGCTTAGCCTATAAGTTAGAAATGTAACCTTTCTGAGGTAACCTGTGCCCTTAAAAAG
TATAAG

Sequence 1073

AGGTGACGCGTCCGCTGCTGGGCTGAACCAACCAAAGATGGAGTGGCAGAACCCTGGGAG
CTGATCGGGGTTCTTTCTAGTAAGTAGTTGCCAGGCCCTAGAACTGATTGGTGTCACCTA
CTTCAGTGTTTCATTTCATTTCAATGACAAGATCAAAATCAGATTTTACAGGATGACCAAGA
TTCTAGTCTTCTCCCATGGCAACAAGTTCTCAGGTTAAAGTCTAGGAATGGTCATACTTG
CAGCTTGTTCTTCCAGAAGACCTGACTTTGGTTCCAGAACCCATGTTGGGTGGCTCACA
ACCATCTATAACTCCAGCTCCCGAGAGCCAATGCCTCTGACCCCAAGAGTGCCTGCACT
CATGTGTATATATCCATAATTAATAAATAAATAAATAA

Sequence 1074

CGGACAGGTTGCAGAAAGGGAAGAAATGCCAGAAGGAACCAATGAAGGATGAGCCCAGCT
TCCAAATTTTGATGAAAGCTTTCGTCTCTACATCAGAGAAATTCTGCAAGATCTTAGAAG
GATGCGCTCAGAGAGATTACACCTAGAAACACCATACTCAAAGGGTAAGGAGAAGAGAG

Table 1

CCCCAGGGAAGAATACAGAAGGGGACACATGACTGGCCACACAGAAAGCTCATCAGGAAG
AAAACATGACTCCCTGTCAGAAACCCAGGGTCCAGAAGGAGTGGGATGACGTTTGCTAAG
TTATAAAAGCGAGCTGTGCACCCAGATTCTATAC

Sequence 1075

CCGCGGTGGCGGCCGCCGGGCAGGTACCCCAATCATTTGCCTGCATCCTTCTCTTCTCA
ACAGACTCAAGAAGTAGAGACGCTGACTTTTTGTCTTTGTATCCCTAGGACTTAGCACT
GCCACCAAATACAACCAAAGTTTGCTGAGCTGACATGATTAAGAGCCTATCTGTGGAAA
GTATGATCGGTCTTTGTGAAGTTGCAATCTCTCAGAGACTTGTTTTGTGCCTTTACAAAT
AATAGATTTTTT

Sequence 1076

CCGGGCAGGTACTACTGGCACTGAGCCAATGTATGCTATCAAGGAAAGCTTTATCTGTCA
CTGAGCAAAGGGTGAAGTTCAATTAGGTCAGTTTTATCACTTCTTTTCTACACACAAAC
TATGAGGAGAGATCATTTCTTTCTTTCTTTATTTATTTATTTTTTTGAGACAGGGTC
CCTCTGTGCGCCAGGTAGAGTACCT

Sequence 1077

CGGNCAGGTGCTTGAGTCGACCCACGCGTCCGCACTAAGATTNTAAGTGAATACCACCAA
ACCCAGGAATAAACTGATTTTTTTTCCCTCTTAAGTGGAAAATAACCTGAATGTNTACN
CAGNTAAAAAATGAGATTGGNGGGAACCNATAACGACCCGGGCTGNTGTTTGCTCTCCAC
AACCTGATGGCAAGGCCCTGTTGNTGGAAATAACACCCACACGGTTNACTGAACATGGGA
AGTGGAGCTGGTGCTNTTNTAGAGTCTTNAACCCCATTTGGNTGGCGTTCTTGAACCA
GGTAGCCTGCATGC

Sequence 1078

AGGTACCCAGAAGAAGGTGCAGATATCTGATTGAAACTGTTTCATCTTACCAACTCTTCCT
ATTGCAGAGAAGACTAAGGTCCAGAGAGGGATAGTGACTTTCCAGGTCACACAGGAAGC
CACAAGAGCACATTGAAGCCAGATACACATTGTCAAAGCACGCATGTCCAGCCGAAGCAA
GGACCCGAAATGCTGATTGTTTCCCTGCAAGGAGGATCCTGAGTTTGTCCTCCGGGAAAG
GTTTAAGAGAACTGGCAGGAACCAAGCCTTATTCTTCTAGGTCCGGTTACCTTG

Sequence 1079

CCGCGGTGGCGGCCGCCGGGCAGGTACACACCACCTCTGGATAATTTTACTTTTTT
TATTTGAGACAGAGTTTCGCTCTGGTTGCCAGGCTGGAGTGCAATGGCGCATCTCAGC
CCGGGTGACAGAGCGAGACTCTGTCTCAAAAAATAAAAAATAAAAAATAAAAAACAGCA
TTCCTTGGGAGGCTAAGCGATCCTCCTGCTTCAGGCTCCCAAAGTGCTGAGATTACAGGC
GTTGAGCCACTGCACCTGGCCTCACTATTTTTTAAATCATGTCTGAATCTTAATTCTC
CTAGGGATACTTATTCCTCCAACTAACACAAGTTGAGTGACGGGATGGGCCCCACTACAT
TANTAAAAAGAAAGGTACCTCGGCCCGCTCTAAAAACTNGTNGGATCC

Sequence 1080

AGGTACAGCTAGGACAAACCTTGACTCCGGGTCGAGCGCTCATTGTATAACATGCAGTGG
CATGGCCCGTGTTAGGAGGAGTCTGAAATCAGATTGCTGAGGGTCCGGATCTGGTTCT
ACCACTCACAAGTGACTTCGTAGGCCTTTCTTATATTCTGATTTCTTATATCTGAACCTGG
AGCTTACACATGCACCAGAATCCTACAGGGATACTGTGGGGGACACACAGCTTGAGGTAA
AGTGGTTACCAAGAGGCCAGGCAGTTGGGGGATCACCCATATCACATAATTTGTCATTG
AGCATGTAGTTTCTCTCTTCATGGGATGACA

Sequence 1081

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGAGCTAACACTTATCC
TCCAGTGCTCTACTAATTGCTTGGTGCTATGTTGACTACTGGGAATGAACCACAAGATAC
ATCACTGTAACTGCAGGGAGNGCTTCACTGATCATGAGGTNAAAATCTCCCCATCATCA
NAAAGAGAATTCTTTACTTAACCTTAGTGGTACCTGCCCG

Sequence 1082

AGGTACACATTTTTGTTGCAAATAGTCCTGCAGCTGGTTTTCTAAAAAAAACCCCA

Table 1

AGAATACATATAAATCTGAGTTCCTATGGCGCTAGTNTACTGGGCAGACTTCTGGTCTG
GGGTTCTTTCTTTNTTTTAATAGCCTTCTGAAAACCTCANTGCCACCAAATGCATGGATC
GTAGCACCTAGTTCTAAGTGTGTGCTATGCTTTGGTCTAATATCCAAAGAGATGCTCTAAA
GCAANTGTGCTTGCTTTTCATGA

Sequence 1083

TTAGGGCAATTGNAGCTCCCCGCGGTGGCGGCCGAGGTACAAGTTGGTCTCAAACCTCCTG
AGCTCAAGTGATCCTCCACCTTGGTCTCCAGGCGTAAGCACTGCACCTGGCCTTAGAA
ACCTCTTTAAAAGTGGTTGTGGTATCCTCATAGAATCTAGGAATCCATTACTCAAAAAAG
CAAGACTGCAATGATACACAGTACCTGCCCG

Sequence 1084

AGGTCGACCCACGCGTCCGTGTATCTCCTACAGTTCATTATGCAGCAGACACGGATGTAA
ATGGGGACAAANATGAAAATACCNACTCAGACTCTTTGTGAGACGTTCAACATTTTTCT
GAAATGGCGCAATGTATTCATTTTCCA

Sequence 1085

ACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTCTACA
GTGAAACTGTTTCTACTGTGGCTTAATTTGCAAAATCCAAGCAGATATTACTTTTAAAAA
TCCAACATATCTCTTTCAAAGGATTGTAAAGTTGCTTACAGACATAAGGTGACATCAGAA
AAGCATGTTGGTATAATGCAATTAGCTAAGGTTTCTAGGAAGCTTTGGAATGTTTGT
TTAAAGAAAGGCATANATAAGTGCAAGTCCCTACAAGTAATGAACTGTCTAGAAAGCAAAGA
AATTCATTAAATAGATCTCCTTGATTTCTCCTTCATGGCCCCATGTCCATAGAGATTGGG
GAATGTACCT

Sequence 1086

CGGGCAGGTACTGACTTAAAATAACAGAGTAACCTGTCTGGCTTACTTGTCTCTGAAAGT
GAATGTTCAAAGTGGGTGGAATNGAAATCACATATTAACGATAGTCCATACTTATATGCA
AAGCCATATGATTCCCTAAGCTACTTAACTGGAATAAAGACACTAATAAAAAATTCATA
AAACATTGAACCTGGTGCCAGCCTCACATTAACCCATAGGTTCTTCACGATTAAGGCTG
ACAATTTAGCTACTGCTTAGAAAAGTTGCAAACACAAATAGGGGGGAGTTTAAATGTTCCA
TCAGAAATTAACCCAANCTGGTTTTGAAACTCTACTTGGCACTTA

Sequence 1087

AGGCTCTGAGTCGACCCACGCGTCCGCTAGGTCTAAGAGCTGAAGCTATAACTGCTAAG
AGGCCTGGGACTCTGTGACACTGAAGTTCAGCAANTGTCTTAANAAACAANAACAGNAGG
GGCTTGGAGAGATGGCTCAGNNGGTTAAGAGCACTGACTGCTCTTCTGAGGTCTCTGAGT
TCAAATTCAGCAACCACATGGTGGCTCACAACCATCTGTAACGATATCCGATACCCCTCA
TCTGGTGTNGTCTGAAGACAGCTACNTACATAGAATAAATCTTAAAAAAAACAAAAACA
AAAAACAGAGAAATAGGAAAAGGAATGGGGGAAGAAAGGGAAG

Sequence 1088

CGGCAGGTCTTGAGTCGACCCACGCGTCCGCTATTGTTGGGCTTACTTCATGCCTTG
CTAGGCAANTAAAGATACTTTAANACAACCTATTNAATATAAATCTTCAAGTTTTTTC
AAAGAACCTTATTTTATTGGGGTGNTTGGNCAGGGTTAAACGNGCCAGGAAAATNGGGA
GGNAAACCATGNAAAAAGNAATTAANCNATTTCCACCCATATTTGGGGGGTTCCAAGAT
GGGANAAATTGGAATTTGGTTTAAAGTAAGNAATTTGNGGGTNGGTTCTTGGCCCAN
ATGGCCTTTTAGGGGTNNGGAAAAATTAACCTTTTGGGGTTTGGGAACCTTTTNGGA
AGGNAAGGGGGAATTTGCAAANGNGGAAGNNGGGGGGCTGTTTTTCTTTGGGGTAAGGC
CAAAAAANGNNGGGNAATTTGNGGTTTGTGGCCAATTGGGGGNGGTTGTCTTTNGNGG
CCNNAGGNACCCGGGGGANAATGGAANGGGGGGAAAAANGAACCAANTGGTANGTCCCAAN
NGGNAAAGGNAAAANNGGNAAAGNNGGGGNG

Sequence 1089

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCATGACACAAAGTAACCTCTCAT
GGCTGGATGTGATGGAGGATATCCAAGCACCTGGCAGGCATTTGTAGAGATCCCCGCTAA

Table 1

AGCCCCCTTCAGCTATAGGATTCTATGATTCTTTTCCTGTGAAAAATTTGGAACACCGTGA
TAGTGTANTTACCCTCTCCAGATCATAGGGGCACCATTTAATAACTTACTACATTAATGT
ATTAAATTGTACCTGCCCCG

Sequence 1090

AGGTACGCGGGGAAGCAATGACGTGGGGAGAGAGCGCGGAGGAAGGGAGAGATCCAGAAA
GGTAGATTCTTCTGTGTAGGTGAGTGGATGAGATAATGAAGCAAGTTAATTTGGGCTCTG
CTGACTTATTTATCTGTCCCGGGCACTTTTCTCCGTACCTTGCCCGNCCGGC

Sequence 1091

CGGCAGGTACAGTAGAGACACCATCTCTGTAGGAACTGTTAGTGGCTACCATGTGTCC
CTAAACTCCCTAGCTTGGTAGTCATAGCCTCACGTTCTGCTTCCAGTTACTTACCTGTCA
ATCCTTTTCTTCCCTACTGATCCCTAGTGCACCTTTTAACACATCCTTATCCTCTTTGTCTA
TGTCTGTTTGTCTATTCTCTGCACCTGCCCTTCTCTCCCTAGTCTACTCCCGCATAC
CTTAAATGCTGCCAATAACTTGATTATGGCTTAATTACTTAATTATGCCAACTGAAAGGG
GTCTACCGTGTTAAAGGGCTTTGGCCCTA

Sequence 1092

NGATTACCCTNGTNCGCCCTTTTCTTCCCTTTTCGNGGTAAAGCCGGTGGGNCGCCCTT
TTCTTTCANTAAGNCTTCAACAGCCTNGATATGGGTNATTNCTTCAANTTCTCNGTGTN
GATAAGTGGTCTGTTTTTCNGNCTTCCCCAAATGACCTTGGGAGGCCTTGGTTGGTAGT
CCAACCGAANACCCCCCCCCACANGGTTACAANNCCCCGNACNCCGGCTTTGTGCGCTC
TTTAATTTNCNGNNTTAAANCTTATTTCCGGTACTTTGTAGGTTTCCCAAACCCCCGNGN
TTATAAGTAACCAACCNGAANCCTTTTAATTTCCGGCC

Sequence 1093

AGGTACTCTTCTGGTTGCCTTGACTCTAGTCCTGATCAGAGTGGCCAGCAAAGAACATTA
TACGCACTGTCCCGGCACTGTCTGTGACATAAAAAGCAATTGACCTGATATCAGATTCC
CTGGGATAGGACCTGAAAAAGAGTTGAGGGCAGGCTCTGCATTTTGTCTTTTCTGATGC
AAATGAGAACGAAATAATTTTTTCAACTTACTTTATCCTATGGTGAGTAGAAGCCACCA
TGTTTCCTGTGGAACCCAGGGCGGTGGCATGGCTTCTGCTTCTGTCTGAGAGAACATTGC
TTTCTGGGACTTATCCCCCTTTTA

Sequence 1094

GGCCGCCCCGGGCAGGTGCAGAACGCTGGAGAGGGTGCAGTCTCTGTGAGGGTGAGCGGTG
TGGTGGCCTGGAAGGACTCCTTCCCACAGTCACTAAGCAGCAGAGGCCAGGCAATCACA
GGCTAGGAGCCTTCTGACCCAGGAATAGGCATTCCCGCATCCTTAGACCACACAATGCAT
GCCCCTGTGTCACTGCAGAAAGGATAAAGGTGGCCATGGCTAGCTGGCCATGCAAG
GCACTACCAGCGTTAATGAGACCTGGCCGGNCAAGGCAGTTACTCTGATGGTAAGTAGG
GCTTGTCTCCTTGCCATGAGAAGAGTTAGGGACACAC

Sequence 1095

CTGAGTGGCTGGGACTACAGGTATGCGCCATACCTAGCTAATCTTTTTGTATTTTTTTGG
TAGAGAGAAGTTTTCGCCTTGTTGCCAGGCTGGTCCGAACCTGAGCTCAAGTGATCT
GCCTGCCTCAACCTCCCAACCTGCTAGGATTACAGGTATGAGCCACCCTGCCTGGCCAGA
TTTAATGAACTTTATTAATCACTTAGTTNTGCTAATTACTATCTTTCCATAATGTTTTG
AATACAACGCTATTGTAGTTAATACCGTTGTTTTTGCGGTTATTTGCTTACATGTCTGTT
TCTGCTACTGAATTGTAAATCCCTTGAATATAGGGAAATATATTTGTATCCCTACCATC
TGAAAAGAGTACCTTCGGNCGCTCTANAAGTAGTGGATCCCC

Sequence 1096

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTAGCCCTGCTTGTCTG
CAGATCCAGAGAGCCTTAATTGACAGATTCAACTGTGCCTATTCTGAACCAATTCTGAT
CAAGAAAGTGGTCCCACCAAGTCAGTGCTGACAGGAATTAGTCTTTTGCTGTCAACTAATG
GTTTCCAATTAAGGGCACTTTTTCCACCCAGAGATATTTGTCAATGTCTGGAGACATCT
ATGGTTGTCACAGCTGAGGGAATATTAATTAATAGCACCTAGTGGGTAAAGGTGAGGAAT

Table 1

GTCATTAAATACCCTACAATGCAGAGGGTAACCCCCACCAACAGAGTACCTCGGCCGCT
CTAGAACTAGTG

Sequence 1097

CAGGCAGGTCTAGCTTGAGTCGACCCACGCGTCCGATTTAGAAGAGCCAGAAATAAAATA
AAATATCTTGGTGTAACCTTTAACTAAGTAAGTAAAGAACTGTATGACAAGATCTTGTCT
TTGAATTAAAAATTCTGAAGATGACAGTAGAAGATAGAAGATGCTCATGAATTGGTAGGA
TTACATAATAAACATGGTGATCTTACCAAAGGCAATAAACAGACTCAACACAATAACTA
TCAAACCTCCAACATTTTTTTATTAATCTTGCAAGAACACAACCTAACTTCATAAGTTGA
ACAAAATAAACAGTATATGTCCAGCCTGGCTTGGCCCTTCAT

Sequence 1098

TCTAGAGCGGCCGAGGTACTCAAAATCCTAACCAGAGCATTCAAACAACAAAAAGTAGGT
TAAAGGGGATACAAAACCTNGGAAAATGAAAGNAAGGTCAATTAATTATTCACCTANTTTT
GCCAGTATGGAATNATGNATTAGGTTTTTACCTTTTAAAGNTGACCNCCCCAAAAAAGGT
TTCNCAACTCGGGAAGNAAAACCTAACCTATATAGNCNTTGAATTAACCAACCAANCTT
TTCCGAACCAAAAGGGGTNANGCCTTGGGGGGTTAATTAACCAACCAANCTTCCAA
AANTTTCCAATATTAAAGNCCCCCTTTTNCCTTTTTTNAACCTTCAAAAAAGGGGGAA
TTNAAAATACCAAGGGGGNTNTTGGGAAGGNAAAAAANAATAATTTTAAGNGGGG
GGNAAAAANTTGGGAACCCAACCCCCCNTTTTTAA

Sequence 1099

AGGTACACACACACACACACTCTGCAGAAATTAACACAGTTTTTGGCCTGTAAGCA
GTATTCATTCTTCCATTAAATCTGCTAGTATTAATATAGGTTTTCTCCATTTTATATTC
CTTTGACTATTAAAGTAAGAATTCAGGACTTGGAGAGAAAGTGGAATTTCCATTAAAT
TCATTAAGTTTTAAATTATTAGCTATACCAGAACCTTTATTATTATTTATGGTGATG
GATATTTTGCCTATATGTATGTTTGTGCACCATATCCATGACTGGTTGCTTGAGGTCAGA
AGTAGGCATT

Sequence 1100

GGGCAGGTCTCGTGCGGACGCGTGGGTGCGACTCAAGCTAGCANATGGAAGCTAACTGCCC
ATTGATAAGTAAAGTTTTACAAGACGTAGAACAGTNTTGTCTNGTNATACATTATCTT
TGTTNNATTCTTATGAGAATCATATTGAANCATCAGGCCATNNTTTTAAAGGGTGGATA
TTGGCGCGTGNAACCCTTTGGCTCCCATTTCTTAAATACCAACCAGGTATTCGCTTTGGA
ATAGNTTTGGTAACCAGGAAGTACCTATTCTTGGAACCCCATAAAAAACCTTTAANGGT
TCTTACACNNTGGTTTTGGAAGNATCCTTATTAGGAAAAAAAAGGGTNTTGGCTTTTTA
TAATTNCTNTAACAGNTTCGGTTTTAATTATTGTTGGTTGGGGGGTGTGGT

Sequence 1101

CGGGCTGAGCCGGGAGCCTGAAGCCCAGCTCNGAGTTATATTGGGGACAGGGCTCCTTTG
GCTCNTGGTAATGGAGNAAAGGGCCTTGANGAATTTAAANGGGAACNCTTGAAGGGGAAC
CAAANNAAAAGNAAAGGCCACCCCTTCCAATTTTAAATNTTGGGGTTGGTTGGTTCCCTT
CGGAGAAAATACCGAAAGNGGCNCCATNTNTTGGTTGGGGTTGNCCTTTAN'TTCNAATTT
TNCCCCTTNCCCCGCGGGGGGGCTTTAAAAAACCAA

Sequence 1102

GACGAGGGCAACCCAACACCCTAGCCTAAAGNCCCCTTGACAACCTGCAGNCATGGGTTGG
CTTGGCCCACCGCCTTGGCANCCGNTCAGCNAAGGAAAAAAGNCCGCGGGCCCTTAAAA
GGCGGGCGGAGGTTCTTGGGTTGAACCTTGGGGCANCCCCACCCGGTTCCANGGCCTGGA
TTGGGGTNACCCNCAAAAGGCCTGTCCCCAAGGCCCGNAACCTTGGGGAAAANGAAATGG
TTCTTTTNGNGNNAAAAAAAAAAATGGAACCCCGGTTGGGGGNANGGCCCTTGGGGG
GGCCTTTGGGGAAGTCCNCCCCGNAAGGGGTCCCCGGGCTGNTTGGCCGGGNCCCCCA
AAAANTCCAAAATGGNCCANGGGGNTGGGGNCCAACCCCCG

Sequence 1103

AGGTACCTAGAATATTTATTTTACAGATAATATCAAGATTTACCTATATTTCTACCAAAGAC

Table 1

AATGATAGGTTTTTTTTATATAGTTGGAGGGCAGGGATAGTGTTTAAAGGTTTATGATG
TATAAGCACGCTTAGACACACCAGGAGAAAGTATCAGATCTCATTACACATGGTTGTGAG
CCACCATGTGGTTGCTGGGATTTGAACTCGGGACCTCTGGAAGAGCAGTCAGTGCTCTTA
TCCACTGAGCCATCTCTATAGCACTTTAAAAAAATATTAAGGCATCATACAGCNITTCT
GCCTCTATGTATGCCCTGCA

Sequence 1104

CGGGCAGGTCTTTGTCTCTCAAACCTTTTATACTGTCATAGTTCATTTTTCTTGTACAGAT
GCTCTTTCAACTTTTTTTGAGAGTATATACATAACAATTGCAGTTGAAAGTAGGGTGGGG
TTTAGTCTCCTGGTCACAGTTCAATAAGTACGGACGCGTGGGTGCGACTCAAGCTAGCTTG
TACACCTN

Sequence 1105

TCGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACTTATAGTT
GAGAGCCAAAGTCTCCCTTATCATTGGTGAATGAGGATGAGCTACTGAAAACAAAAGAGG
GTCTTCTACTCAGCCTCTACCCCTAATATTTATATCAGAAGCAGAGATTAAGTGTCTTA
CTCATTACACGTTAATGGAAGAGAAGGAAGTTTCTAGAAAAATCCTCCCGCTCCACCC
TGCAAACCTTTATGCTTTTCTGTTACATAATCAGGCAGGGGCAAGACCTAAACTATTTTGA
ATTGGTGGTGTGAGGCTAAATCTCTGCTATTGACAGAATTGAGAATGTGATCAATTTT
AGAGTAGCCATGTTACAAATTTTGTCCCAATTTCAATGGGGGAGGAATTATAACCAAATC
AAGTAGTGGTTGGGAAGA

Sequence 1106

CCGGGCAGGTACGCGGGGAGTTCTCTCAGGCTCTCCAGAGCTCAGGACCTCTGAGAAGAA
TGGAGCCCTCCTGGCTTCAGGAACCTATGGCTCACCCCTTCTTGCTGCTGATCCTCCTCT
GCATGTCTCTGCTGCTGTTTCAGGTAATCAGGTTGTACCT

Sequence 1107

TCCTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGTAGAT
GGAAGGAAGAACTCGTGTGCTTAGACCTGACGCTGGGAGGAGATGCTGCCACCTAGGTTA
CTTGTAGGACCTATACGGCAACCTCCTTTGCCAGGAAGTATTATAAACATCCTGCAGG
AAAATGCAGTAAAGTAGAAGAGACAGGGATATCCAGAAGGTTATGCAAAACATCAAGAG
AAGATGAGAGGAGTCTATATGTCAGAATACACATTTCCACCTTGCCCAACAGTAGAAAA
ACATAAGAAGAGAAAAACATTAAAAAATGACAAGGAAGTTAATGGAAGTCAGCAATGTGA
TGGTGTGTTGGGAGGTGGAGCCCTTCAGAAAGGTAATTAATGCCCTTGTAAAGAAAGAGGCC
AGNAGAGCTTGCCGCACC

Sequence 1108

GGGCAGGTACTTGTCTGATGGGTCATCCAGAAGAGTTTCATGGAGATCAGTTCACAACA
TTGGACAGACTATGAAACAAAGTCTGTAATATCATTTATACTCAGTATTGGTAGGCTTTT
TCCTTAATACCCCCACTCCAACAAAACAGACCTGCCTTCACTTCTCTTGAAAATATTATT
ACCATCAGTAACTGCTTGTCTACTATGTCTCCAAGGCAAGCCACAGGCTATAAGCCAATT
CTGCAAAAGGGAGCAGCAAAAGAAATGCTTAGTGCAATTCCTCTATTTAAAGTTTGCTT
GAGTTTTGATTATTTTGTATTTTG

Sequence 1109

AGGTCACGCGTCCGACCTAGCTTGAGTCGACCCACGCGTCCGATTTCTGGTTTCTTTGGA
GACTCGGTTGTGCCATGTGATGCTTTTCTGGAACTGTCTTATGAGAGGAAGCTTTTGCT
GAAGCAGACACATGGGAGAATGTTTGTGAAGAACAGACATGTAGTATTTTCTAGAGGC
AGCTTGAATAAAGAGCATGTGGTATTTTGCTAGAGGGGACACTTGAGAGAACATGTGACA
TTTGGAAGGATATATGTATAACCTAAAGGACAGTGGCCAATGCTGTGTGGTATTTGGG
TGTGCCTTACCATTCTTGCTGGC

Sequence 1110

TCGTGATCTAGATCCCTATAGTGAGCGGACGCGTGGGTGCGACTCAAGCTAGGTGCGGACGC
GTGGGTGCGACTCAAGCTAGGTGCGGACGCGTGACCTTCCCCAAAATTCTCTTTTTTCAGA

Table 1

TGAAAGTCATACACTCAGCTTTTCATATTTTAAATATACATAAAACAGCTCAGTGAAGCTGGGA
CACTTCCTAACCTCCATTTGGGTAATTCACCTCCCTCCAATAATCCTGAGTTATCATTTA
TTATATTTTGATTTTACCTTGGCTGCACTGGAGCCAGTTGGGCAGCCCTCTTGGGCCT
CACTCTCATGTTCTTACATGGGCAG

Sequence 1111

CGGGCAGGTCACGCGTCCGCATGCCTACCCGGGCTTTTTCTGACTCCGTGAAGCTGATCT
CTTCCTCATTGAGGAAGGGTAAACCCCTTTGTAGATGGGTAAACCCCTTGTCAGTCAGAGA
CAGTAGCCATCCCCGTGAATTCAGAGCGCAAGAGACTGAGGCAGGATAATTACCTAAAC
CTAGGAGTCCAAGATTTGGCTAACGTAGTAAGACCTGTCTCGAAACAAAACAAATCTTGA
GGGATGTGATGCTTGCTTAGTGTTAGATTGTGTGATTAGGATACACAGGGCACTCAGCTT
CCTATCTCCACTGAAGCAGTCAATTA

Sequence 1112

CTACTGAGACCATTACAAAATTAATGGTGACTTTTTAATCTGGAATTGCAAACCGACAG
CANCCTGTCTGGGGAGCTCCATGTNATGAGTGTATGTCTCCAACAGNCTTCAATGACTGA
CAGGTGAAAAGCTGTGCCACAGCCTGGAATTATTATGCTGACACACAAAAGAGGGCGGGA
GTGACAGCGTGGTGATCTACCANTGCTGTCTGTGGGGNTAATGGTAAGCTTTCCCACTGC
TAATGGTTTATNNANAGAACAAGAAAAGGAAAACGGTGCANGGGAAAATCAATANNTAT
TAACATAGTCATGGTAATGAATGCAATCCNTTATTTCTGGGAT

Sequence 1113

AGGTACATAAACTTGTAGAGATTTACACACGCCAGCCGCACATCGCCCCCTTCCCAATGG
CTTTACATCTTGGTGACCTTTCAGAAGCCAACGGCACCCCTTCTGTTGTTACCCGTAATT
GAAAAGCATCAGAGATAAAAAAAGTGC

Sequence 1114

CGGGCAGGTGAAACATTTTTATTATTTATTTTCTTTGTTACAAAAGGACTAAGTGGTTC
TGAAAGCCAAGGCAGAGTTCATGTGTCTGGGCTGACATTCCCATGGCCTATGAGCACTGA
GCAGCCACAGGCTTTTCCAAGGAAGGCCAAGGCCATCACATCCCCATCTACATCTACAA
TACTTGAATGTATTTACATGTGTTGTTCTTTAAAAAGGATTACACATTTTATCTTTAAA
AATCTAAAAAATGATGGAGAAAAGGAACACAGTTTATCTTACACATTTGCAGGATATACA
AGGGTAACT

Sequence 1115

TTGTGTGGATTTACTTGTGCCCCACTGTCCCATACCCCTCCACCCCCACATGGTGTGCTT
CCTCCAGAAAGGGACTACTTCTGCTGACCACACAGAAGACGTGTGTAAAGTCTGTGTATC
AATGAATGGATTCTCATCTTTCATAGTTTTTTTTTAAATAGTTTTATGTAGTGTTTAACT
AAATTTCACTTAAAAAGATATTTACCAGAAGCTGANAGTANGGTGTGATGAGGTTGGGT
CANGAAGGACTGNTATCACATGGCTTCCCTAAGGTTGTATATTACATTGCTAGGACACCT
GACA

Sequence 1116

CGGGCAGGTACTTTTCTTAACTTACCTGACTGAAGGCATCCAATCAGAAAGGAAAGTG
AACAAGTATAATGTTTCTAAGTGAGTCCAGATGGTAACAAGAATTCAAACATTATTCTTT
TTGTATGTTTAAATAAAACAAATTTTACATTTTATTTGACCAGCAGATATAACTTCCCTGG
GCATAATTTTATTAGCAAAGAACTGATGATACTGGTAATAAAAAAAAAAAAAAAAAAATGAA
AGGAAAAAGGAGAATGCACCTCAAACCAGAATACCATAACATGTTTTGTGGAAGCTGCAT
TTTATTTGAAAAAC

Sequence 1117

ACTTTTTTTTTCTCTGTAGGAAGTCAACGATAGAGTGACATGTTGGCTCTTTCATTTCAA
CTGANACACCTGGTAGCTATTGGATGGCATTCTGTGAATTATGAATAGTAGTTGTGATAG
GCTTATTTGCACCTTGACATTCTTACTTGGGAACGCCATCTCATGCCATTTCTACGT
TTCTTATGCAGTTAGTTTGGGGCATGNGGTANTCCACTGGAAAATGACTCAAGCGTGGAA
TGTATTTATGATCACAGATAAGGAAGTGGCCGTCCACAAAGCTTTGGATGGTTGTATTTG

Table 1

TCATTTGAACA

Sequence 1118

AGGTACCTGCTTTGTGATACTGTGAAGATTAGATAAAGCAAATATCCACACAGGAAAGCC
CTGGGTGTTAGCATAAAGCCGGAGTTGAGAAGGCCAGCTTTCTATTTACGTGCTGAACGA
TGAATAGTTAAATAGTTTCCGTCTGGCCACGTCCTTACACACACCCCTTGGGTTTTCTT
CTCTCCCTGGTAGGACTGCATCGGACGCGTGGGTCGACTCAAGCTAGACCTGCCCGG

Sequence 1119

GCGGGCAGGTGTCCGCTCACTATAGGGATCTAGATCGGACGCGTGGGTCGACTCAAGCTA
GCTTGTACAAAACTTTCAATAAAATGCTTCAAATAATGATTGTCCGAAGCTTGCTAGAC
ACTTTGTAAATGTCAGGAACACATTAAATATGTTAAATGAGCATGTCCAATATCCAGAAA
ACAACACGAATGATTTACTATCAATTTACACATGCCCTGGGAATGTCTCCCTGATGCAAG
ACAAAAAGGTCTCTTTGACCAGAGCATACTGACCCCAAGTTTGGTCTGGCACAGTAT
TCATGGGTGCCATTCAT

Sequence 1120

GGGTACAATGGAAAAGGGGCTGTGTTACTAAGACTGACCAAAGAAGAGATTCCAATATCT
TATGATTTGTATGGTCACTGTAACTGCAATTGTAACATGAACATATTGCCTATAAGCCT
GTGCTCTCCCTTTAAACACAAAATAAAAAACAAGAAAAACAAAACAAAATGAACC
AAAATAGAAAACCTTTTACAGCGTGAGTTGTTTCTACTTAGGATTGGACATCAGTGCATT
GATCTGAGTCTGGAGATCTTAGGCCAACTTAACAACCTGTGAAAACCTTCTCAATGGGGTA
A

Sequence 1121

CGGGCAGGTCTCCGGCGGACGCGTGGGTCGACTCAAGACTTTTAGCCTCTAAGCCATCTC
TCTACCCATTGATTTAAATATTTTCTTTGTGAATTTGAATTGTAATTTTGTCTAAT
ATAATTCTATCATTTTCTACCTTCATTTTCTCCTTTCAATCGCTTCTATCTATTCTCCA
ATTTTGCTGG

Sequence 1122

CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATGCTGTTCTATAT
CTTGATTTTTTTTTTCTACTTTACACATCTCATGAGTTTATCCCCAGCACTGGGTATA
GAATTGCCCATTTCTTTTCAAGGGCTTGCTGTAAAGTATTCTGGGAAGTGGGCGCACTCT
CTTTAACTCTTCTCTGTTGATTGTTTTAGTCTCCTTCTTTCTATAAAGCAAGTTAAAG
GAAACATTCTTTAACAATGTTTTAACAAGTCTTAGCAATGGTTTTATTATCTGTAGG
ATAATCTAGGAGTAGAGTTGCCAGTTTTTAGAGTATGTGCTTTTGAAATTTGTTTGTAT
TCACTTGGGCAGCAGTAAGTCATCTTTGCTTATTGTCGNCGCTGTCTCGACCTGAAATC
CTTCTTTTTATATTCTTGCCCTCTTTT

Sequence 1123

GCNCGAGGTACTACTGGCACTGAGCCAAATGTATGCTATCAAGGAAAGCTTTATCTGTCAC
TGAGCAAAAGGTGAAGTTCAATTAGGTCAGTTTATCACTTCTTTTCTACACACAACT
ATGAGGAGAGATCATTTCTTTTCTTTCTTTTATTTAATTTTNNTTTTTTTTTGGANAAC
ANGGGGNTCNCCACNTCTGTCCGCCCATGGTTAAGAAGTTACCCCTGGCCNCGGGGCGNGG
NCCGGNTACTTAGTAACCTAGTTGGGATTNCCCCAGGGCCTGCAAGGGAAATTTTCGATA
CTCAAAGCTTTATCCGGATACCCGCTTCCGACACTTNGAAGTGGGGGGNGGNCNCCCGG
TAACCC

Sequence 1124

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCTAACCTGGGCG
ACAGAGTGGGACCCTGTCTCAAAAAAATAAATAAAAGAAAGAAAGAAATGATCT
CTCCTCATAGTTTGTGTAGGAAAAGAAGTGATAAACTGACCTAATTGAATTCACCT
TTTGCTCAGTGACAGATAAAGCTTTCTTGATAGCATACATTGGCTCAGTGCCAGTAGTA
CCTGCCCCG

Sequence 1125

Table 1

TCCTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGCTCTC
TCAGATTAAGGATATGTGTCTGCTAGGTAAAGCGACATCTGGATTCAATTGTGTAGGATGA
AAGAAACCAAATTCTGACTGCTTATTTGTGGATCCGCCAAATCTGGCACGATGCCTATCT
CACGTGGGACCGAGATCAAGTCCTGGCCCC

Sequence 1126

TCCTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACTGATC
TCGGTCCCACGTGAGATAGGCATCGTGCCAGATTTGGCGGATCCACAAATAAGCAGTCAG
AATTTGGTTTCTTTATCCTACACAATGAATCCAGATGTCGCTTTACCTAGCAGACACAT
ATCCTTAATCTGAGAAGAGCCCCCGGTACCT

Sequence 1127

CCGCGGTGGCGGCCGAGGTACTGTAGTTAAATGTGGGTTCTACATGGTTCTGCAGTTTCT
AGCCCTATAAACCTCACATGCCATGTTCTCTCCATATATCTTAATCACCTTTAATTTG
GAAATAACAGATCTACCCTGCTTATCTTACATTGTTGCAGTGAGAAGAATGACTACGTTT
TTTGAAACCACCGATGCTGTACCTGCCCGGGCGGC

Sequence 1128

CCGCGGTGGCGGCCGCCCCGGGCAGGTACAAGGCATTTTTGCTAACTGTAACCTCCCACTT
AATCAACAAAAACAAAACTCATTTCTGAACATTCAAGTGCATCCATGATTAATCTTAA
TTACACCACAAAGGTATTTTCAATGGTGATTTTGCGGGAGTGGGGTAACAGTTTCGAAA
GCAACATTGTCAGAAACATAGTTGATTTTAAAGGTTCTTTCTGGTGACTTTGACTTCTGC
TTTTTTAGAAGACCTTACACAGAGTTGTATTTATTTCTCCTGGAATATTTCAAGCAATTC
AGAGTGAAAGGGTATACATTCCAATTTGCGTATGAGATAAAATTTAGTTACATTGAGAAG
CTATTTTCTTTAGTTACAGGGAATAATTGTAGGGCTTTTGAAGCCTCTTTGATTCTA
ATAGGAGGA

Sequence 1129

CTATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGGTGCCCACTGGGCC
AGGGTGGTCACTCCTGAAATACATGTCCAGGGTCTTGTTTGTCTATGATGTGGGTGAAAGC
TGCTCAGCCCGCACCACAGTAGAGAGCGGGACCACCTCACGAAAGTTTATAGCAAATC
CCAGAGTCTAACCCTGAAAAGCANNCAGGAACAAAGACCTTTCCAGAAAGAAGGACATGA
ACANACGCTTAAAGAACGACCTGGGCTGCCAGGGTAAGAACCCTCAGGAGGCCGAGAGTT
ACTGTGCACAGTACCT

Sequence 1130

GGCGGCCGAGGTACAAGGGCAGCAGAAGCAACAAAGGCTGTGGCCAGCAACGAAGGCAGA
GTCCCCGGTAGGGCGAGGTCCCCGTGCACAGTGTGGTGCAGCAGTGAACCCAAGATTTTC
CTTCACAGGGCAGGGGAATTTCTTAATAAGCATTGGGCATTTACAGGCCACAANGGGC
AGCCATTACTCAGCACTTGCACTGACCTTGGGAATTTGCTGGGCAAGGAAAATGACGCGG
CCCTCATCATCGATGGCCACACCCTGAAGTACCTGCCCG

Sequence 1131

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACACTTTCTGTG
CTTATGGGTATCTTAGTATAACCTTTTCTGGTTGAGTGAAGTGTGTCATTTCAAAGCCT
GAAGACATTGTGATGAGTGCTGCCTCCATAATGGCTACATTCTAGGGGCTTTGCCCTGAA
TCGCATATATTAACCTCAAAAAACAAACAGTACCTCGGC

Sequence 1132

CGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATGAAAACCCTAAAGCAAATGAACA
GCTTAACCGGATATCACAAAGGCTACAACAATTAACAGAGGTTTCAAGAAGGTCGTTACG
CAGTAGAGAAATTCAGGGTCAAGTTCAAGCAGTTAAACAGAGTTTGCCACCAACTAAAAA
AGAAGCAGTGTAGCANGTACCCTTGCCCCGGCGGCCGCTCTAGAACTA

Sequence 1133

TCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCTAAAACCTAAAGTAT
AATAATAAACTAAAAAAAAGTTATCCATGGCCTAGACAAATCAAAAAAGCATGTGACA

CTATATGACATCACATTTCAATTTCTTGTAGAAAGGAACAAGAGTAGTTTAAACACCAGCA
GCATTCATATGCAGAGAGCATCATAAGTACCTGCCCGGGCCGGCCGGCTCTAGAAGTAG

[illegible]

Sequence 1134

Sequence 1135

Sequence 1136

Sequence 1137

Sequence 1138

Sequence 1139

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Table 1

CTGGTGAGTGGAACCTTTATCCCGTGTGACAAATGCGTATTGAGGCCCTAACATGCCCC
CAGACCTCAAGATGTGCTGCTCATACATTTGAAGGTAGCCCTGACTTGTGTTNGGGGGNG
TGGGGNGGGCCCTTTCCATCAGTTGTNTTGGANGNTGTGGCCAGCAATCCATTCCAAAT
TGNCTGAGTTTTCTTNATTTACTTTNGGA

Sequence 1140

AATTGNAGCTCCCCGCNGCGGCNGCCGANGTCAATACTAGAGAAGGGAGAGAATATAGTT
AGGACAATAAATTATTGAACAAGTGATTTTTCTGTGATGACTATACCCATTTTCCAAAA
CTAATTTCATTTTTGGTGTGTGTGTGAAGAAAGTTTGGAGGCTTCAGTTTCAATCACTGT
CTCAATACTTAATTTTCCATTATTACAGAGAAATTGTTTTCTGGAAATTGGCAAGAGG
AAGGAAGTAATAATAAAAGATGACTTATGCAGATCCCATGTGACCATCTTACATTCTTAC
TCTTGTGCCACTGTTTTCCCTGGCAGTCCGTTACTGGTTTAAAGAGCACTGGGATATAACT
CTAGAAATACGGATTATTTTCTCACCTCTGACACTCATTTCATGGTGGAGCCCTTACCTTA
NTGCCAAGGTTATTGGCATTAACTTTACTATTTAACCTTGCTGAAGTACAGTGTCTTTC
CTCAATGTGCAGAAAGCTTAGATAGTTAAATAACTTCTAAGGATTATCTATCTGGATTA
TTAGGATTTTTCATCATTTCTTGGCGTGATTGTACAAAGAAAAACAGGACATAGCTAGGTG
GCAAGTGCATCCTCACTCAAAGTTACTTTTTT

Sequence 1141

TCACTATAGGGCGAATTGGGAGCTCCACCGCGNGGCGGCCGAGGTACCAGTGAGGCATT
TCCTGATTTTTACTCATAATATTTACAAAGATTAAGAGATAAATTCCAAATGTGAAG
GCTTAAATTGTTCAAATCCTTACTCAAAGAAATAGTGGGAAAGGTGGGTAAGTCAGAGTC
TGCTGCGTGAAGGAAAAAATCAAGTTAATCTCTTCTGAAATTATCATGATTTGTTGGT
TTAGATTTCCAGAAACANAAAAGANNAACANAAAAAAGGTCCCT

Sequence 1142

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACAGAATGAGCTATAGCCTG
CAGTGACCAGAAATCTCCAAGTAAGGGAGTATACACTGAATGTCATGCCCTTCATTAAGT
TAAGGCCTGTAGTTNAAGTTCTTTCAGTATGTGCCATGAACAACAATAACAATGTCCTT
GGTGTACTCCTTTGAAAGATGGACATTGAAAGTTAAAAATCAGTCACTATATAGGGCCTG
TTGATNGGAAAACCCATTTGNGGTTCTTACAAATTGTAAGCNGGAATGCCTT

Sequence 1143

CCGCGGTGGCGGCCGAGGTACACCGTAGCTTATTTCAAGTGACACAGACCAGGCAACTGA
CAAATACCGACAAGTAAATATTGTTCATTTTCTAGGTAATCTCTATAATCAAGGGGACT
GATTTTTATTCTGGAATTTTCCCAAATGTTTTCTTTGTAGAAATTATGTTGCTCTCAAT
TGTGTGCATGGTAGTACCTGCCCCG

Sequence 1144

CCGCGGTGGCGGCCGAGGTACTCTAACCTGGGCAACAGAGTGGGACCCTGTCTCAAAAAA
AATAAATAAATAAAGAAAGAAAAGAAATGATCTCTCCTCATAGTTTGTGTGTAGGAAAA
GAAGTGATAAACTGACCTAATTGAACCTCACCTTTTGCTCAAGTGACAGATAAAGCTTT
CCTTGATAGCATACATTGGCTCAGTGCCAGTAGTACCTGCCCCG

Sequence 1145

AGCGGCCCGCCGAGGTACTCTGACGGAGTTACACACCCCCAGCTATGAAGTAGTCTT
GCCAAANCAATTGAACATGACATTTTCATNAAGCTCTTANAACCGACTATACCAATTTATG
GNATAAACAGAANGACCACGTGAAACAAAANCTCATTAAAGTATGCTCATANNGCAAAAA
TTCACGACTTATAAAAAANACTTTTNACTGGGACCAATAGCATCNGCANGTTTTCTTGNC
ANACAAAAATATTGANANAAANTGTCAATAANGGGGTAATAGNAGGAACANGTANTAANT
GTAGATAACANNAATTTGGAATTATGGAGGGNGNAGTAGTAAGGAATTCAAAGCGCATNG
TCTANCAAACCGGTGGTTGGGGAATGGTTTAAATTTTNGGTACCCCCCTTAGATTTTGA
AANANAAAACCAAGGTACNTTAAAAANAATTTTNGNAATTTCCCTCTNTTTNTTTC
CTCTTANTAGGAAAAACAAACCGGCANAACCTTCCAAGGGTTTTTNAANAANANGGATNA
ATTTTTTTTATTAAGNCCCTTCNNGGTAATTGGAAACNTTTTGGGTNTTTTNTTCCAATT

Table 1

NTCCAATTNTTAAAATTAAAAT

Sequence 1146

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCAATTATGATTTT
TAAAAATGCAATGGCATGAATAAATAAATGAGTATACCCATTTGTTGATCTTATTCOCTA
TTACTTCAAATTTGTAAGTATCCTTAGTGGAAAAGAGTAATGTTTCATTTTGGAAATAATC
ATGTCTCAACATGATTGGGGTCTACTCAAGGGGGAGGGTGGGAGGAAGAAGAGGAGCANA
AAGGATAACTATTGGGCACTGGGCTTAACACCTGGGTGGTAAGATAATATGATCAACAAA
CCCTTGTTACACATGTTTACCTATGTAACAAACCTTCACATGTACCTGCCCCGGCGGCCG
CTCTA

Sequence 1147

CCGCGGTGGCGGCCGAGGTACTTGCAAGAAACCTCAGGACTTGAGTAACAGCAACATGGT
AAGTTTTCTAAGTTTTCTTTTTGTCTCCCATATACGCTGGGCTGTGCTGGAATCACCAAC
AGGCACAGAAAAAATGACAACAAAACAACAAAACCCCCAAGAATATCCTGTTGTCT
TTGGCCAAAGTTCAGGAAAGGGGAGCCCCAACAGAGACCCAGTAGGAAGCTCTAGCCCCCT
GTTTTGTACCTGCCCCG

Sequence 1148

TNGGAGCTCCACCGCGGNGGCGGCCGAGGTACTTAGCTTTGTCGCTTTCTTTCTCCTCCTC
TTGTTNGAGTTTAGTATTAATAAAAGTTGGACTGAGAAAACCTTTTTTACAATCTTATG
GGTTATTTTTAGTGTAACGTTTTAGAAGTANAATATACATATAAAAACTGCACAGATCA
AATGTGTGCATCTCAAATGGTGTTCCATTTTCAAATATGAATACATATGGGCAGCATT
ATATTTTTAAAAAGTCAGAAGGTGCCTCCTCATGCCCTTTCCACTTCTCACTCATTGTCC
CTCAACCCAGGCATAACTACTCTCCTGACCTCCAACATCATAAACTAGTTTCACAAGCTT
TGAAACTTTATCCAAATGAGTCATACAGGATAGATGTTACAGAGCCTACTTAGATATTA
TGGATCCTTGCCAGGTAT

Sequence 1149

AGCGGCCGCCCGGGCAGGTACCTTGCAAGTATTAGACTTAGAATAAAACTGTGTTGACTG
ATATAACTGATGCATGGTTGGAATAGTAGGTTCTTGGGTAAATTAATCCTAACATCAATA
GCTCAATTCCATCATAGTCCTTGAACAGGCAAAATGTATGCTAATCACACAGCCGTACC
T

Sequence 1150

AGCGGCCGCCCGGGCAGGTACCTTGCAAGTATTAGACTTAGAATAAAACTGTGTTGACTG
ATATAACTGATGCATGGTTGGAATAGTAGGTTCTTGGGTAAATTAATCCTAACATCAATA
GCTCAATTCCATCATAGTCCTTGAACAGGCAAAATGTATGCTAATCACACAGCCGTACC
T

Sequence 1151

AGGTACTATTTTCAGATGGTAGGGATACAAATATATTTTCCCTATATTCAAGGGATTAC
AATTACAGTAGCAGAAACAGACATGTAAGCAAATAACCGCAAAACAACGTATTAACACAA
TAGCGTTGTATTCAAACATTATGGAAAGATAGTAATTAGCAAACTAAGTGATTAATAA
AGTTTCATTAAATCTGGCCAGGCAGGGTGGCTCATACCTGTAACCCTAGCAGGTTGGGAG
GTTGAGGCAGGCAGATCACTTGAGCTCAGGAGTTCGGACCAGCCTGGGCAACAAGGCCGAA
AACTTCTCTCTACCAAAAAAATACAAAAAGATTAGCTAGGTATGGCGCATACCTGTAGTC
C

Sequence 1152

CCGGGCAGGTACCCTTGGTTTCTCAGACAACTCACTGATTTATGGTCTTGAGACCATAAA
CTCATTTTCTTATATGAATGACATTTCCACATCCACAACAATACCACCAAAATATATGTA
TCTAGTTCTTACTAACTGCAATCCTCAAAGTGAAGTGCCTGCATTTTAATGTTGCGTAG
TTTGCTGATTTATGATTTCCCTTAATGTACCT

Sequence 1153

CCGCGGTGGCGGCCGAGGTACCAACCAGGGCTTTGATTTTCATGCTGTCCCAAAGTTGCA

Table 1

GACATGTTACGACACAGCTGCGTTTGTTCTTCATCTTGTTTCAGCAACCTTTGGTAAGA
AACTACCATATTTAAGATTGGTATTCTAGATCCAAAAGAAAAATGCATGTGTTTGCTGTG
TGTGCATGGGCACATGTATGTGTATGTCTGTCTGTAAGGATAGAGAATGGCTGAAAATTC
ACAGGTTTTTAAATTCCTAAAAACAGGAACGAAGGAATCTAACAGCTATGACTCAAAAC
AAGATTCTTAATAAAGTTNCATGACAANGTAAACAACCTATTTNAATTGAGAATGTTAAA
TAGCCTTGGTACCTGCCCCCGGCCGGGCGNTCTTAGAACTAGTGGGATCCCCCGGGCCT
TGGAAGGGAATTTNGATTNTTNAAGCCTTTATCCGAATANCCCGTCCCACCCTTNGAAGG
GGGG

Sequence 1154

CCGCGGTGGCGGCCGCCGGGCAGGTACAGGAGGCAAAAAAGCAATCAGTATGACTTGAA
CTGCTGGGTTTAATTACTCAATATAACACTTGCCATTTAAAGATCCATATGCCCATCAGC
ATGGCAACAGTCTCTCATAAAGATTCCGGTATCATATGGCACAATTTGTACCT

Sequence 1155

CCGCGGTGGCGGCCGCCGGGCAGGTACATACGTAACAGGGACTGGACCACTCCTCCCTT
AGTTTGTTGTCCATTTCTCCAGTCAACATGTATTTACTGAACACCAGTTATGCATAAGGC
CTTCTGCTGTCTCTCATTAGCAACGGGAGAGTGAACCAGACTAGAAAGGACAGACAGGTA
ACTGTCTATATCTAAGAACTCTTTCTTTTGAAATCAAACTCATCTGCAGAGAATTAGT
CTTGCCCTGTGCAATTTTCTCCTTATGGCCCCCACTTCCACTAAGGGTCATGAGGTT
GGAGGAGGGCTCGAGGGGCCACTGAGTGAATCCCTCTGCTTAGAATCAGCAGCACACTTA
TAGGATCCTCAATGCACAAGAACCTGTCAACACANAACAGCTTTCAGAGAATACCTTCCC
T

Sequence 1156

CCGCGGTGGCGGCCGAGGTACACGAGGGAGGCACGTGAAGTCTATCATTCCATGCTCTCA
AATGTTAACTTTCTGCTTTATATACATAGCAATGCCTCATTTACCTAATGTTGGGGAGTA
AGGTATTATATGTGAAAATTTTATTTTAGCTATACCTTTTGTTGAAAAATTTTACAATA
TATGCTTTGGTTATTATTACTAGCATACTGGCAGTAGTTGAGTGAGGCTATGAGATGATC
GAAAAATGTAGTTTGTGTTCCACTGCGCTTTTGAATTATTGAATCTACTTGAGTCGATT
CAGTAGTCAGTCTTTGTCTTCTTTTCAGTGNGGAAAGCCGCTCTCTTGCTGCTGTTAGTA
TCCTTGCTGCCCTCTTTAAATTATGCAGCTTCTTATCTGTGGAGTAGGAGCTTCTGAC
ATTGAATGTAAACAGCTAAATGGC

Sequence 1157

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCATCATACAACATAATT
TTAAAGCTTCACTGTTTCAATAAAAAAATAATATAATCATGTTTATCTGACAGACCCA
TTGCTTTATTCAATATAATCAAATAGAAGAGAGGAAATTTATGGTGTTTGAGAATGCA
TGCAGGTITTTCTTTTGTCTTTCTTTTGAGGTGTGAATACAGTAATAAAATACTGACT
AATGCTTG/AAGGCTTGAAGAAGGGACTAGCGGTGGAGTCCAAGGACAAGAAGAGATGAG
AAGCTTTT:TTTCTTTTCTTTCTTTTGGTTTCAGAGGGAAGAAGCTATGTAAATTGGA
CTGGGAATTAAATCCAGCTTCAGTCAGAGAATAAGAAATAGCTTGAAAGTACCTGCCCG

Sequence 1158

CCGCGGTGGCGGCCGAGGTACTTTTAAACATTTTTCTTGAGAAATCATTGCCTAAAT
CTCATACATATGTGCTTCTCTGCAGAAAAAAAATGAAATAAAATAAAATCTTTATTTT
CAATGA3CTAATGAGGAAAAAGGGGATGATGAAAAACAGGGAGTGGGAGCAATTTTGA
AATGG/AAGAATGCTGAATACCTACATGATGCCTAATTCAGAAGAACATTCTGGTATGTA
GGACATTATTTTCAACTCTATCACTTACGGCAGATTTTTTTTTTATATGCAGATGTATCT
CTACTCTCTAAAGATGTACCT

Sequence 1159

CCGGGCAGGTACTGTGTATCATCGCAGTCTTGCTTTTTTGAGTAATGGATTCCATAGATTC
TATGAGGATACCACAACCACTTTTAAAGAGGTTTCTAAGGCCAGGTGCAGTGCTTACGCC

0

Table 1

TGGGAGACCAAGGTGGGAGGATCACTTGAGCTCAGGAGTTTGAGACCAACTTGACCTCG
GCCGCTCTAGAACTAT

Sequence 1160

TCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATTTTCAAATGGTTA
AAATGGTAAATTTTATGTTACATGTATTTACCACAATTTTTTATAAGACCAGATTTTA
AAGAGAATCAAACAGAACCTGCAGAAATAAAGACATAATAATTGAAATTAGTTCGATGG
ATGAATCAAATAGCAGATTAGCTCAGCTAAAGATGACTGTGAATACACAAAATGTAGCAT
GGTGATACAAAAATTGAATATATCAAACAGAAAGTTATGCAACATGAGGACAGAATAGAAT
GTCCAACATATCTAAATACCATTCAGAGGGGAAAGAAAAGAAAATGGAGAACCGAGGCA
ATATTTTGGAGGATNTTATTGCTNGNACTTTTCCAAAACTGCTGTAGTTTCTGGAAGC

Sequence 1161

CCGCGGTGGCGGCCGCCCGGGCAGGTACTTATCCCATTTTATAAGCAAAGAGGTAGGAC
TGGAAAGGTTAAGAGCTTACTCAGCGAGAGAGAGCTGGTAAATAAAGGAGTGAAGATTCT
AACCCAGATGGAATGTCATGCCGAAGCTATTAGCCACTAGAAGATAATACCTCACTTGCA
CATTCTGCTGCTGCTGCTGCTGCACCTGAGGCCTTACCTGGGCTCGGTGGTGAATGCC
TAAGATGGTTCAAAAAGTGCATGTGAAAAGTGTGTTTAGGCCAAGCTATCAACAAATCTT
CTGGTGATATCAAACCTGGTGGCACAGATAAGAGAAATTTGAAAGTGACTTTCAAAGCA
GGGTGGAAGCCGTAGTACCT

Sequence 1162

AGGTACTCCATAATGGATGTGGGCCAGGGTAAAAGCAGTTGTTAATGTATACAGGAGAAT
GCTCTCAACGTAAGAGGCTACTCCTAGGTTTACCCTAAGACAACCAAGAAGAGAGGAAC
CAGCAACCAATTCAAAGTTGGGACACCGGGTACCTTGCCCGGGCNGGCCGNTCTAGAAC
TANGTTGGATCCCCCGGGGCTGCAGGNANTTCGATATNAAGCTTATCNNTANCCGTCGAC
CTCNAAGGGGGGGGCCGNTACCCAGCTTTTT

Sequence 1163

CCGCGGTGGCGGCCGAGGTACATTTTGAACAATCTACTCTTCAAGTGGATCATTTACAAA
ACAAGAACATAATTCCCTGAATCAGTAAATTTTATTTTCATGAAAGGATGACAAAGAAAT
TCCATTTACACTATCAGATTTACATTTTCTACAATTCATGCAGCTTTCTTCAATTCAC
AATCTACAAACCACAACAATGCACAAATTTGATGTTAGAGGATACTTTAATGTTTAGTTC
TCATCTCAACAGTCACTGTTGCTAGTGTCTCTCATTCTCACTCTTCACTGTTACTTAAAG
AACAAAGAACTAAAGAAGCCAGAAAGAACTAGATCAAGCGATGAGACCAATTTTCAGGGT
AAGGCATAATAACATTAGCTAGTCAAAAAGTGGAGTATTTCTATCATTTAATCCTGCAAG
ACAATAACCTNCTGTTTTCCCTCACTTTCTTCCAATAACTTGACAGAAGTCTGGGGAAG
GATGGATCCCAAGCAGAAAACCTTCAAAATGTGAAAGAAAATGGAAATCCTAGCATAGT
CACATGACTAAGTAAATCCCAGAACTCTGTCAACAACCTTTGTTTTCAATGCAGAAAT
CATTTTTGTACCTGCCCGGGC

Sequence 1164

ATTGGGAGCTCCCCGCGGTGGCGGCCCGAGGTACACTGATCGTTTCTGCAGCTGCAGATT
CTGCTGTTGACTCTGGTCTAAAAAGGGTCCAGAAGTAATGTGCCTTCAGACTTTAACT
TTGGAATGGATTGCTTTGGCTCTCTGCTTATCTTTTTTGCCAAATACTGATGTACCTG
CCCG

Sequence 1165

CGAGGTACGTTGTCAGGACATTTTGAATTCGGTATTCTTGGTCTCCTGGCCCCAATTCT
AAAAAAGTTACGTTTTGATGAAAAAAGATATGGGCATTATGGATGTTGAGGAGATCA
CAGCTCAAAAGATTGACAGGGGCCCGAGGCATATAAGAAACATATGGTACCTGCCCG

Sequence 1166

CGGCCGCCCGGGCAGGTACTGGTCTGNCTGCAGAGGCACCAAGATGATATCTTCTCCAC
TGTCAGAGTTATTTANGAAAAATAATCTCTGGCATANGCCGAGTGCTCATAAATACTTCA
NGATGAGACAATAAAGCCGCTCCAGGTCTGGCATGGCCCAACCTCAGGACACTGGCCT

Table 1

ACACATTTGCAGGTAGAAGCAAAGGCCTGCGTCAGGCCTGTGGCCAGCTTTTGCTGTGC
GGGAGGCTCTAAATGAAGACAATCTTACTCCAGGTCTCCTTCCACTTTGTTGCCTCTAG
AATGTCATCTCCCTCCCTCCTCTNGGAAAGGAGTCACTCCACCCCAACCAT

Sequence 1167

CTCTGCTCTCATTTCTCTGCAGATTCTCTGAAGCCTATCTGTGCTTCTCAGTATTCTCTAG
CGGAGTTGAAAAACGCCCCCTTAGAGGTGCACAGTTAATTATAGAAGCTGTTAGCTTTCCC
ATCTGTAGTCATGCCCTGGAGCTAAGAGAAGGACTTGAATACAGAAGAGGAGATGCCCCC
TGTACCT

Sequence 1168

CCGCGGTGGCGGCCGCCCGGGCAGGTACTACTCAGAGAATTTTCATTGCTACTGCCTGTTCC
GTTAACCTAGCAAGTGAGTAAATTGAGGCTTTAATTAACAAAAAACGGTTGTTGTTCT
TTGATATACATTTTGACATAGCTCAAGCTTCAACCCTGCCAGTTCCTATGCTCAGACCC
CATCTTCAAGGATGCTCCTCCTGCCTAACTCCTCTCTCAGAATATTGTTTTTCTTTCC
CGTTTAATCCCCAGGCTCAGCTCCTGGGACCAATCTGGTTCAGGCTCCTGTTGCCTGCC.
TCATCCCACAGCGCTCCATAATTTGGTGTTACCGTCATGCACCTGAAGTGGTAGTGAGC
ATTATAGTAATAAAAAATCATAGTCTCACACTGCCATT

Sequence 1169

CCGCGGTGGCGGGCCGCGCCATGGCTCACGCCTGTAATCCCAGCATTTTGAGAGGTGCA
AGCGGGCGGATCATGAGGTCAGGAGATCGAGACCATCCTGGCTAACACGGTGAAACACCA
TCTCCACCAAAAAATACAAAAAAGTAGCTGGGCGTGGTGGCGGGCGCCTGCAGTCCCAGCC
ACTTGGAGGCTCAGGCAGGAGAATGGCGTGAACCCGGGAGGCGGAGCCTGCAGTGAGCCG
AGATTGCGCCACTGCACTCTAGCGTGGGTGACAGAGCAAGACTCTGTATTAAAAAAAAAA
AAGTAACTTTGAGTGAGGATGCACTTGCCACTAGCTATGCCCTGTTTTCTGTGACAATC
ACCGCCAAGATGATGAAAAATCCTAATAATCCAGATAGATAATCCTTAGAAGTTATTTA
AC

Sequence 1170

Sequence 1119
CCGCGGTGGCGGCCGAGGTGCTTTCTTTTTCTTTCTTTCTTTTTTTTAGCCCTGAG
ATGTATTTGACTTCTGAACACCTAGAACCCTTTGTTTTCTTCTTCTGTATCCCTGAC
CCTTTATTCAGTTCAGCTTGCTATTTTGTTTGATACATTTGCAGATTCAGTGAAGAC
CACCCAGCCCATATATAGCTAGCTCTTCTGTGAGATGTGTATTTAACCCTGAAAAACTA
ATGCAAGAAATAGGAGAGATGACCCGAAGGGGAAAGACTCATAGGATCTTTTCCCCC
TTGGCATTGGCCAGGGATTTTCATACATCTCNACCCTTAAGTTGAAGANGGCTTGAA
GCCTGCTTTGGCTTTTAAATAAACCCTGGNAACCCTTGCCCCGGGGCCGGCCNGTT
CTTAGAAACTTTAAGTGGGGNATCCCCCGGGGCTTGCAA

Sequence 1171

GACTNCTATAGGGCGAATTGGAGCTCCCCGC3GTGGCGGCCGAGGTACTAACATCAATAA
 GTCGAGAAAAATTATATTAAGTAAAGAAAAACAATAATAGAGAATTTATTAAACGTAT
 TTCTAATGTTTCTTTCATGTTTGGAGAAAAGCTGCCACATAATTAACAATTCTTACC
 CTGTAAAAGTATTGCTTCCAATCTCAGGAG3TTTTACATTAAACAGGGAATATAGAAT
 AANGAAACAGGCCTATGGCCCCGGGCTCCGT3GGCTCACGCCTGTAATCCCAACACTTTGGG
 ATGCCGAGGCGGACGGATCACCGAGGTCAG3GAAATCCAGACCATCCTGGCTAACC GCGGT
 AAAAACTAGTTCTCTTACCTAAAAAAATNCANNAANANANAAAAGGAATGGAAGGAAA
 AGAAAAAAGTTACCTGCCCGGGGCGCG3

Sequence 1172

Sequence 1172
CCGGGCAGGTACCTCCAGGCCCTGTG¹ATTATTAAGATCTTTTAGTAGCGAGTTGCTCT
TTCTCTGGGAAATCGGCTGTAAAGTCA²JAGGGAGCTCTTAATAGTTTGCATGGTATTTG
ATTAAATGGAACAGTTGGATCAGTACCT

Sequence 1173

CCCTTGTTGAACAGGCGATNTNTNACCATGCNCACAATGA¹AATCAATACTCAGAGAAGG

Table 1

CAGATAATTCTCCACGAAGCCAGAAAATAATAATGAACAACCTGGGTGAAATGTNCCA
CCAGACGGNGTGATATTTAGTAGCCCNATAAGCTGCCANGGGGTTGAATGACACTATCTG
AAGATATGAACCAATTTGNTCTCCATAGGGAGGATTTATCAACAGGAAACANATGCCTG
GAAGGCATTGGATT

Sequence 1174

CCGCGGTGGCGGCCGCCGGGCAGGTACGCGGGGATCTCACTCAATCTTACTCCCTTGTA
GAACAGGCGATATCTTACCATGCGCACAATGAAATCAATACTCAGAGAAGGCAGATAAT
TCTCCACGAAGCCAGAAAATAATAATGAACAACCTGGGTGAAATGTCCACCAGACGG
TGTGATATTTAGTAGCCCANAAAGCTGCCAAGGGGTTGAATGACACTATCTGAAGATATG
AACCAGTTTGCTCTCCATAGGGAGGATTTCAACAGGAAACAGATGCCTGGAAGGCAT
TGGATTTGCTAAGTGCTATGCCATATGATTCTGCTGTTTGCCTTGATTAGAAATGCTG
AGCTGACTCAAAGTCAAACCTA

Sequence 1175

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGNCNGGTACTGAACTTATT
TTAAGGTCTCCAATTTATTTGAATATAAATTTGTTGGGAGCTGAGAACATTTTTTATTTA
TATGTGATTTCTGATTGTTTATCTGTGTTTGGCATATAATAAAAGTTGATTGAGCTGAAG
GACTTAAAAACCTGAANCACACCTTCCATGCTTTTCATTTGCTTTACCTNTGCATGGAAC
ACTTTTAACTCTGTCTCTCCTGTGTGAAACTTCTCTGAAACCTTACCAGCTGNTCTGTGCT
GCTACTTGTCTGNTGTACCT

Sequence 1176

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTACAGGGGACCGCCAGGGGCCCT
CGAGAATCGGTATCCTGAGTCCTCTTGAAGAGCAGTAGAGGTTGTTTCATTAAGTGCAAA
CACATTGTTCTTAATTTGAAAACCTGTGGGCAGAAACAGAAGCCCGAGACTAATTTTTCCA
TTGCTAACTCTAGATTCTCGGCCACTGGAGTCTGAAGATACTCTCTTTGAGAATGCATAT
TATTTTGCTCACAGCTAAACATTTAAGTATCATAGCTGATCAGTGGAGTGAGATTAATA
GGTTTCTTTTTTGAATCATCAGCTAGAGATGTGCAAGGGAGACAGCAATGCAGGGTGTGT
TTCAGAAGAGCTTGCTGAGGTGCTCGGCTCTTAGCATTTAAAAATGTGATNGTTGGTATA
TCATTC

Sequence 1177

CCGGGCAGGTACAAATATTGAAGGGGAAGAAAATATAATTGTCCTTTCTATCTTTTTCT
CATAATTTAGCTCTTTCTCCACCACGTCATGCAGCTGAATTGAGCCAAGCATTAGTGGTA
GGGATAAAAATAATGCCGAATCACTCTCCCCATTTCCAACCTTCCACTCTCTTCATGTG
CGCAGCTGCACTTCGTACCT

Sequence 1178

AGGTACAATACTAGAGAAGGGAGAGAATATAGTTAGGACAATAAATTATTGAACAAGTGA
TTTTCTGTGATGACTATACCCATTTTCCAAAACTAATTTTCAATTTTGGTGTGTGTGTG
AAGAAAGTTTGGAGGCTTCAGTTTCAATCACTGTGCTCAATACTTAATTTTCCATTATTC
ACAGAGAAATTGTTTTCTGGAATTGGCAAGAGGAAGGAAGTAATAATAAAAGATGACT
TATGCAGATCCCATGTGACCATCTTACATTCTTACTCTTGCCACTGTTTCCCTGGCAG
TCCGTTACTGGTTTAAAGAGCACTGGGATATAACTCTAGAAATACGGATTATTTTCTCAC
CCTCTGACACTCATTATGCGGAGCCTTAACCTTAGTGCCAAGGTTATT

Sequence 1179

TACCCAATTGTCCCAAAAACCTTTATTAACAATCAAAATCAACCTTGACTCCACTCAACT
ATTATCCAACCTCACCTAAACTAAATTCACAANGTGTATATGGGTCTATTTGGGAATC
TNTGTCCTGTCACTGGCCTGTATTCTGTAGCTGAGCACTGTAGCATGGACCANACCC
CACACACCTCTCTTTTGGCAGAGGCTCATGGCACTTCTGTAGGTCATTTTTTTCTT
TTTTGAATATACCCTTGGTACCTGCCGGGCGGCCGCTCTAGAAGTAGTTGGATCCCCCG
GGCTGCAGGGAATTCGATATCAAGCTTTATCGATACCCGTCGACCTNGAGGGGG

Sequence 1180

Table 1

GGTACATGGAGGCCAAAAAGCAATCAGTATGACTTGAAGTGC,GGGTTTAATTACTCAAT
ATAACACTTGCCATTTAAAAATCCATATGCCCATCAGCATGGCAACAGTCTCTCATAAAG
ATTCCGGTATCATATGGCACAATTTGTACCT

Sequence 1181

AGGTACATCTCTAGCTGATGATTCAAAAAAGAAACCTTTTAATCTCACTCCACTGATCAG
CTATGATACTTAAATGTTTTAGCTGTGAGCAAAATAATATGCATTCTCAAAGAGAGTATC
TTCAGACTCCAGTGGCCGAGAATCTAGAGTTAGCAATGGAAAAATTAGTCTCGGGCTTCT
GTTTCTGCCCACAGTTTTCAAATTAAGAACAATGTGTTTGACCTTAATGAAACAACCTCT
ACTGCTCTTCAAGAGGACTCAGGATACCGATTCTCGAGGCCCTGGCGGTCCCCTGTAAG
TACCTGCCCGGGCGGCCGCTCTAGAACTAGT

Sequence 1182

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACTGATCGTTTCTGCA
GCTGCAGATTCTGCTGTTGACTCTGGTCTAAAAAGGGTCCAGAAGTAATGTGCCTTCAG
ACTTTAGACTTTGGAAATGGATTGCTTTGGCTCTCTGCTTATCTTTTTGCCAAACT
GATGTACCTGCCCC

Sequence 1183

TGAATNAGGGGATAACGCAGGGAAAGAACATGTTGAGCAAAAAGGCNCAGCAAAAAGGCC
AAGGGAAACCCGTTAAAAAAGGGCCCGCGTTTGCTNCGCCGTTTTTTTCNCATTAGNGC
NTCCCGCTCCTACCTTGACCGTAGCCATTACACCAAAAAAATCCGACCGTCTCAAAGT
TCNAGNAAGNCTTGGGCCGANANACNCCGAACACAGGACCTTATTTAAAGGAATACCCC
AAGGGCCGT

Sequence 1184

NGGTGGGCGGCCGAGGTACCTNTCCACAAGCCTGAACATGGAGTAGATGCATGGCACGGC
CAGATTAATGCAGGACGCAACGAAAGGCAGTAACAGCACCGCCCCAGGGTACTGTGTGT
CTTCAGGAACCTAAGTTGTACCTGCCCC

Sequence 1185

ATGCATGGCACGGCCAGATTAATGCAGGACGCAACGAAAGGCAGTAACAGCACCGCCCCA
GGGTTACTGTGTCTTCAGGAACCTAAGTTGTACCTGCCCC

Sequence 1186

AGGTACAAAGGGAATAGATAACAGGGACATTGATCTAAAGGGAGGTTAGGGAGGACTTCT
TGGAGGAAGTGGTATTTGTGTCTGAGTTATATGGGATGTGTGGGATTTCTTAGGTGAAAG
AGGGCAGAGCAATACGGTGGTAGGCTAGATCTGTGCAGCCGGCTTATTAGACAAGACTTG
TTACCCTGCCCGGGCCGGCTCGCTCTTAGTAACNTAGGTGGNATTCACCCCGGGGCCTGC
CAGGGAATTTCCATTATCAAAGNCTTATTCGCATTACCCGTGCGAACCTCNTAGGGGGG
GGGGCUCGCCGGTACCCAGNCCCTNTTTGTCTCCCNNTTTAAGATGAAGGGGGTTTAA
TTTGNCGNCCGCTTTGGGCNGTAAATCATTGNGTGCAATAAGACTTGTTTTNCCTGGT
GNTGGA/AAANTTNGTTTAAATNCCGCCTTCAACCAATNTTCCACCANCAACNANTAAC
NGNAGGNCCCGGGNAAGGCCATTAAAAAAGNTNGGTAAAAAAGNCCCTGGG

Sequence 1187

NTCGC/NCGTTCCNGCTGCGGCGAAGCCGGTATCANCTCAACTCAAAAGGCGGGGNAATA
CCGGC/TGTATTCCCACAGGAATTCATGGGGGGAATAAACCGNCAGNGGNAAAAGAAAC
AATGG/TNTAGTCAAAAAAGGGCCCCANNCCAAATAAGGGGCNCACGGTAAACCCGGTAA
AAAAAANGGGCCCCGNCGATNTGGCCTGGGGCGGTTTTTTTTNNCCAATAAGGGCCTTC
NCC/GCTCCCCCCCCCTTGTAAACGGAAGGCCAATTTCAACCNAANAANAATTCGGGAAC
CNN/CCTTTCAAAGGTTCAANGAAGGGGTGGGGNCGNAAAAAACCCCCCGGNACCAGG
GGGAACCTAATTTATANAGGGAATTAACNCCAAGGGGGCCGTTNTTTCCCCCCCCCT
TGG

Sequence 1188

CGAGCGGCCGCCCGGGCAGGTACCTTGGCAATAAGTTGCTAGTTATCTCAGCCTATAAAA

Table 1

TGTAGGGCATATGGACATTAAGATTATAAATTAGCTTTGGTGTAAATCAAATTTTATAATT
TGTAAGTAACTGGACTATGTTGTGCATCCTTTTCATAGTTTAGGATGATTAAGAGTTTGGACCT
TATAAGTAACTGCCACATTTTGAATCATAGGCCCCAACTGGGTACCT

Sequence 1189

GGCGGCCCGCCCGGGCAGGTACTACTGACACTGAGCCAATGTATGCTATCAAGGAAAGCTT
TATCTGTCACTGAGCAAAAGGTGAAGTTCAATTAGGTCAGTTTTATCACTTCTTTTCCTA
CACACAACTATGAGGAGAGATCATTCTTTCTTTCTTTTATTTATTTATTTTTTTGA
GACAGGGTCCCACTCTGTGCGCCAGGTTAGAGTACCT

Sequence 1190

NCACACAACAATACAGAGCCCCGNGGTANCCATTATANTNTGTTAAANGTNCNTNGGGGGT
GCCCCTAAATGGAGTTGTAGCCTAACTCCACAATTTAATTTTGGCGTTTGCNGCTTNACN
TGCCCCCTCTTNTCNTGTGNTGGTAAACCCTGTNNTTTGCCAAGCCTNACAATTANATGN
AAANTNTGGCCAAACNGTNTCGTGGAGTAGGAGNGGCGGGTNTTGGCCGGTAATTTGNNG
CCGCCTTCTTTTCCCG

Sequence 1191

AGGCCAGCAAAAGGCCANGAAACCCGTTAAAAAGGCCCGCNGTATGCCTGGCCGTTTT
TTCCATAAGGCCTCCCGCCCCCCCCCTTGACTGAAGNCATTACCAAAAAATCCGGANNG
CCTCAAANTTCAANTANGGGTGGGGCGTAAAAACCCCGGACCAAGGGAACCTTNTTAA
AAGGAATANCCCAAGGGCCGGTTTTTTTCCCCCCCCCTTTGGGAAAAGACCTTCTCCCTCN
GTTGGCCGGCCTTCNTTACCTTGNTTNTACCCCGAACCCCTTGGCTCCNGCNTTTTT
ACCCCGGGGAATTAACCCCTNGTTCCCCCNCCCTTTNTTCTTCCCCCTTTT

Sequence 1192

GGGCGGCCGAGGTACCCATCCAGGGCTCCAACATGAACCACACAATGGACCTTAGGCCCA
TTCCAGCACACAATACTCAACAAAGGATGCTTAAACATTAAGGATCTTTACTATCC
TCTTGGCAAAGTACCTGCCCCG

Sequence 1193

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGATGTGGGCTGAG
AGAGCCAACCAATCCAAGTGGGGTTTTGTACGGAACGGTATTGGAACTCTGAAGTAGA
TAAATAATTCAAAGGATATTAGCTAAAGTGATCAGGGACCAGGACAGGAAGGTACCTGCC
CGGGCGGCCGCTCTAGAACTA

Sequence 1194

GGCGGCCCGCCCGGGCAGGTACANGCATCGCTGGTGGTTTTCAAAAAACGTAGTCATTCTTC
TCACTGCAACAATGTAAGATAAGCAGGGTAGATCTGTTATTTCCAAATTAAAGGTGATTA
AGATATATGGAGAGAGAATCATGGCATGTGAGGTTTATAGGGCTAGAACTGCAGAACCAT
GTAGAACCACATTTAACTACAGTACCT

Sequence 1195

CGCGGTGGGGCGGCCCGCCCGGGCAGGTACCCTCCAGGCCCTGTGTATTATTAAGATCTT
TTAGTAGCGAGTTGCTCTTTCTCTGGGAAATCGGCTGTAAAGTCAGAGGGAGCTCTTAA
TAGTTTGCATNGGTATTTTGATTAAATGGAACAGTTGGGATCAAGTACNCTCGGNCCGC
TCTAGGAACTTAGGTGGGANTCCCCCNCGGTGCCTGCAANGGAAATTCGGAATAATTC
AAAGGCCTTTATTCCGGNATTACCCCGGTGCNNACTCTACCGGAGGGGGGGGGGNGGGG
CCNCCCNGNGNTTAACCCCCAAGACCTTTTTATTGGGTNTCCCCCTTTATANTANAGTT
TGGAAGGGGGGGTTTTAAATTTTGGGCNGNCCGGCCNTTTTGGGGCCGTTAAAAATTC
CAATTGGNGGTTCCAATNAAGGCCCTTTGGTATTTTCCCTTNGGTGGGTNGGAAAAAT
ATTGGTTTTAAATTTTCCCCGNCCTTTCTACCNAAATNTCNCNANCAACCAACCTATTA
NNCNGTAANTCCCCGGGGGGANGGCCANTTAAAAAGNTNGNGTANAAAAAGNCCCTTG
GGGGGGGNTGGCCCTAAANTTGAAGGTTGGGANGNCCCTTAAACCTTCC

Sequence 1196

TGAGGTACGCGGGGGGATGTGGAGAGGACCATGTGAAGAGAGAAGCTGAGACTGAAAAG

Table 1

GATTTATGTATTAATATTGACAGAAGCCAAGGAACACCATCTGAAGTTCTGACGGCAACA
 TCAGAAGCTAAGAGAAAAGGCATGGAAAAGATTTCTACCTTAGTAGCATNCAGAGGGAT
 GAGGTTGGNTCNCTGCANNACAANCNCTNTGNTNTTATCTTGACCCCTTCTNGACCCCTCN
 CNNAAAACCTTGAGNAGNGNGAAAAGAAAATTTTCTTGNTTGGCTTTTAAANAA
 CCANCAACCAGGCCTTTGGTNGNGGTTACCCCTTGCCCCCGGGNGNCNGGGCTNCGTCN
 TTCTTTAGTAAACNCTAAGGTTGGNGNNATCCCNCCCCCNNGGNCNTTGGCAANNNGG
 AAANTNTTCNNAATTAATTTNAAAAGTCCTTTTATTTTCNGAATTACNCCGNTNCAGAN
 CNCNTTCTGATAGGGNGGGGGGGGGCC

Sequence 1197

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATGCAGAAGATATACACCATCCT
 GTTGCCATATATCTAAGTTTTTAACAATTTTTCTTAATATCTATCTCCTCCCCAGATT
 TGAAACAATAGATGCACAAATATGAAACGATTAACTAACTTGATTAGCTGAAGCCAATA
 ATAACACCCAAACAAAAGCTGAACACTTAAACCTACTCAGCCATAAACAGAAGAGCTTG
 AAAGCTGCAGGCTTTGTCCCTAAAGCTAGGGCCTGCTGTTGTGGTGTAAACATCGAGAAG
 CTTGAGATAAAGGTGTCTGTCCCATAGAAGGCTCAGTTAGGTAGGCAGTATCATTTGCTC
 ATTTGCTCCAGCCAGTNGGAGGGTAAGATTTTCCATTCTTAATTTCTCATCCACTAGGA
 TCATCAGGTAGAGAATGGAGAGATTGGGGAACC

Sequence 1198

ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGAACCTG
 TGTGCTTAGACCTGACGCTGGGAGGAGATGCTGCCACCTAGGTTACTTGTAGACCCCTAT
 ACGGCAACCTCCTTTGCCAGGAACCTATTTATAAACATCCTGCAGGAAAATGGTAAGCCCT
 TGGTTAAATTTATTGGCTTCATTTATGTATCTCACAACACTTCTTTCTGTTTTAGTTCT
 AGGAATAGAAACTTACTTTTGAAATACAGTACCTGCCCC

Sequence 1199

AGGTACAGGCAAAACACATTTCTGTTTCACACTTCCTTATAACACCCAGCAAAATACCA
 GGGAAAAATAGCAAAATATGAATCAATCTTTAGTAAGTTTTATTCTAAACAAAAGGAGTGA
 CTGATGAATCAGATGGNAACAGGAGGGGGATTGAATTTGTTTTGTTTTTAAATGGNGA
 TNCAAAATCCAAGGGAGGAGAAGATGAAATTATTACCTAAAACCCAGGCTTCTCCNCAAT
 TATTGNATCCCTTAAACCTTTAGNCAACCCATTTTTTGCCCCGCCCTTGTGGAAACAT
 GGCTTCTTTTTNCAAGGAACCTCCGTTCCAAATTGGGGTNGTTGGAAAAGNTGGCCTTTT
 TCCTTGGAAATGGTTGGTTTTCCCTTTAATTCAAAACCCCCACCAATTCCTTTTGGNCT
 TAAGNCCAACCTTCCCCTTAATTAACCTTTTCTTCCCCTTTTTCAAAAACCTTCCCTTA
 AAATTTTGGGGGGTGGTTNCAACCNCTTTCCCCTTGGTTAAGGGGGAATTGGCCTTTA
 AACCCCCCCCCAAAAAATTTTCNCCC

Sequence 1200

AGGTACGTATCTAAACCCCGTGAGCTAGGCACTCCCCACCCATCTGCATACACTTTGTCA
 TCTTTGCAACTACAGCGTTTAACAAGGGCTGGGAGATTTCACTAAAACAGACAGAATGA
 ACTTTCTTTTAGGGATCTTAGAACATTTTGCATGGATAGGTGGAGAATTTGAATAAAATG
 ACCTATAGGGATAACTGTCTTTCTAAAGGTCTAAAAACAACTGTCCCCAGTTCATTAAC
 CAACATATTTATTGCCACTAGAAATCAATTTTCAAAGAGTGGTAAAAATGACAGGGACTG
 TAGCCACTGCCCAAACCCGACTGACAGGGTCTCAGCACTAAATCAAGTAAATTTAATA
 AGTGTCACTGTCCAGGTGTGACAGCTAGGATA

Sequence 1201

CCGCGGTGGCGGCCGGTGCCACACTGGGCCAGGGTAGTCATCCTGAAATACATGTCCAGG
 GTCTTGTGTTGTCTATGATGTGGGTGAAAGCTGCCTCAGCCCCGACCCACAGTAGAGAGCGG
 GACCACCTCACGAAAGTTTATAGCA/ACTCCCAGAGTCTAACCTGAAAGCAGCCAGGAAC
 AAAGACCTTTCCAGAAAGAAGGACATGAACAAACGCTTAAAGAACGACCTGGGCTGCCAG
 GGTAAGAACCCTCAGGAGGCCGAGAGTACTGTGCACAGTACCT

Sequence 1202

Table 1

CGACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGACGTATG
TTGAAAGAGGTAAATAAATGTATGAAAATATAAAGCATTGAGAAGACAATTGTCCATAAA
AAAGAACCAAGTGGGTATCCTGGAAATTCAAAATACAATGTCTGAAGTTGAGAATTAGAT
TTGTTACAAACCAGATGGCACACATCAGAAATCTGAATGAGAAAACCTCAGAAGCAAGTTA
ACAGAAAATATCCAAACTGAATCACAGAAGAAGACTAAAAGAGAGCATGGGAGTTATGTG
AGACACAGACAAAAGTTCCAACATCGATGAAATTGGAATCCTGGAAGAAGAGAGAGGGGA
AGGGCAAGAGAAATATTTAAAGAAAAAGTAATTGAGAATTTTCCAAATCTGATGAGAAA
CTTTAAATCACTGAATCAAAAAGTTCACTAAGCCCAACAGGGTGGACACAAGTGACACAC
CAAACNTTCCACACAAAACCCATCCAAGTACCTCGGGCCGCTCTAGAACCN

Sequence 1203

TTTTTTTTTTTTNTNTTTTTCGAATGACAGCCTANTCTTTATTGCAGGTTTTTTATTTTA
ATTTAATACCAGAGAGCCCTAAGCCAGGATTTATTTTTCCCATATGAAAATATTTNGGTC
TGACTCTGAAGTCTCANANCGGTNGCTGAATTCCTCAAAGTGAAGAGTGAAGGCTTTGT
AAGTTTCTCAAGGCATTTTCATGTGTCATTGTTTTNTCCTCCCAATAGANANTGAANGTA
ATGGTGATGTCCNCCAGCACATCACCTGGATTAAATTTNTGCTGNGCANGAAATGCATCN
GCACCTTTACCGTNACCTAATNAATTTAACNGCCCAGGCCCNTGGGNAANCAATNCCNGC
AAGGTTTCNCATTTTTCTTNACCAAGAANGTTTNTTACTTTTCAGATCTCGATGGGGCAA
ATTGNTGGTTTGCCTTGAAGTNCCCTNGCCGNTTCTANAACANGNGGGATNCCCCGGC
TGCAAAGGAANTCNAATTTCTAANCNTTANTNNANTNNCCGGCAAACNTGAGGGGGGGGG
C

Sequence 1204

CCGCGGTGGCGGCGCGCCCGGGCAGGTACAGACTTTATTCTCTATTTAGGGGCTTGT
TATTAAGCAGACAGAACTCTGCTTGATTATTCATGAAGTCGCCAACCATTATCATGCA
CATTTGTTTAAAGGTCAAATGAAGAGAGGAAATTTGTGTGCAGTCACGGCAAATACTGC
CTCATTTTACCCACTGTGATACTAAAGGTACCT

Sequence 1205

CGCCCGGGCAGGTACCTCTAGGCAATTCATTACAGTAGCATTAAAGACACCAAGGCCAA
ATGCTTTGGGGTCACTCTTCTAAACACCGTGTCTAGACAAGAGTCATCAAGCAATGATT
GCTTGACTGATTTTTTAAATTATAAGTCACACAAACACAGTCATCTAATAAAAAAA
ACTGATTTTCTTAAGATTCTCAGAGTGGTAACACTCACAACTGTCATGTCAGCAAGTGGA
ACTTTCTTCTAAGTAAACATCAGAATTCGAATCAGCCTTTGAACCACTGCAAATATTTCA
CAGTCTCAAAATTCACCTACCTTAAACCAAGCGCGTACCT

Sequence 1206

ATTGGACTCCACCGCGGTGGCTGCCNACGTACCATGTCTGCACCAANAGTGGCAATAAGG
AGGAGGTGGCATGTGGTGGACNGANGGANAGCCANATCTGTTTCAGGTTACANCATGCA
AANAAGGGCGATGAGAATNTTTCATTATACATA

Sequence 1207

CCGCGGTGGCGGCCGCGCCCGGGCAAGGTACCACTATTTGAGTTCTGCAGTTGGCCAGGGT
GTGGGAGGGGCCTCAAAGTTAAGTGGAGACACTGAGATGGACAAGACCAGATGCTATGCA
CAATGGAAATGCATGGTTGAAGTTTTCTTCTGCTGTGTGGGGCCTTAGGGCCACAAG
GGCAGCCATTACTCAGCACTGCACTGACCTTGGGAATTTGCTGGGCAAGGAAATGACGT
GGCCCTCATCATCGATGGCCACACCCTGAAGTACCT

Sequence 1208

CCGCGGTGGCGGCCGCGCCCGGGCAGGTACAACGATCTCTTTTGTGGTCTTCTATGTCAACT
CTCAAATAATCTCTACAACCTTTCCACCCCCACGCACCGTGCCACAAATCATCTGTT
ACCTAACACATAAGTGACAACACAATTCGTTCTGCTGCAATTTCTGCTGAAGATTGTTCC
AATTTACTTCTCTGTTGACATATAAAGTAGCCCTTTAAAGCTTTTAAAGGCTTTAAAGCTT
TAAAGTAGCTTCAACATGATTTTGATTCTGCTTTTTATTCTCATTTAAATGAAATATTTT
TGGGATTGAACAATGAGAGNAAAATAATAGAAGAGTAGGTGGTAAAAATTAATAAGTA

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[illegible]

Table 1

GCTTCTATTTGACCGCGATGATGTGGCTCTGGAAGGCGTGAGCCACTTCTTCCGCGAAT
TGGCCGAGGAGAAGCGCGAGGGCTACTGAGCGTCTCCTGAAGATGCAAAACCAG

Sequence 1217

AGGTACCCAAGTGATGTCATCTCCCCATCCTCTTGAGAGTGTCTGAGGAGGCCTCTTTTC
CTTTTTTATTGCAATGGCAAGGTTGGAAGAACTGTGACNAGTAAGAGGCAGAGACCCAN
AGCTGAGTGTAGCATCATGTCTTCTAGAGACTCTCNCNNAANAAANCTGACTTNGGCCAG
TGCTNTGGTTGAAATGTATTCTGGATCCCCGCGAGTACCTGCCCGGGCGGNCNTCTAGA
ACTAGTGA

Sequence 1218

GCAATTCTNCAGTGGGAGTAAACCACAGACTACGAGGGAGTTTGACAGCTATTAACCA
GGGCTCCACAGTTAGGAGGTAGCTTTGCAGTTTGGGAGGGCTGTTTCCATGATTGACT
GTATTATGGTTCAAGTCANANGAAAGGAAGATCCCTGGAAGTCCATCACAAGTGGTGCCT
TAACGGGAGCCATACTGGCAGCAAGAAATGGACCAAGTGGCCATGGTTGGGTNAGCCGCA
TGGGTGGGCATTCTCTAGCTTTAATTGAAGGAGCTGGTATNTTGTGACAAGATTTGCC
TCTGCACAGTTTCCAATGGTCCTCAGTTTGCAGAAGACCCCTCCAGTTTGCCTTCAAC
TCAGTTACCTTCTNACCTT

Sequence 1219

CCGCGGTGGCGGCCGAGGTACAGGTCCGAAAGTATGAAGAACACAGAAGGCAGGCCAGGG
GCACTGTGAGATGGTAAAGAGATCTGAAGGGATCCAGAATTCAAGCCAGGAAGAAGCAG
CAATCTGTCTTCTGGATTAAACTGAAGATCAACCTACTTTCACTTACTAAGAAAGGGG
ATCATGGACATTGAANCATATCTTGAAAGAATTGGCTATAAGAAGTCTAGGAACAAATTG
GACTTGGAAACATTAAGTACATTCTTCAACACCAGATCNCAGCTGTTCCCTTTG

Sequence 1220

ATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACGTGGACGGCGTGGAGGTGCAT
AATGCCAAGACAAAGCCGCGGGAGGAGCAGTACTCAGNTAAAATATTTCTTCATAAATAG
TTACAAAACCTGCCAAAACACAAAGGGGAAAGTATTTTTCATTCAAAAAAATGACATTTG
AATGTNACNCAACACAAGAAACAATGCTTAGAGACATGTTATTGTTTCCAGAAGAAAATG
GTCAGTAAACTACTTAGCTGAAGACAAAAG

Sequence 1221

ACTACTTAGGCAATTGGAGCTCCCCGCGGTGGCGGCCGTGCACTCATTTACCCGGAGA
CAGGGAGAGGCTCTTCTGCGTGTGGTGGTTGTGCAGACCCTCATGCATCACGGAGCATGA
GAAGACGTTCCCTGCTGCCACCTGCTCTTGTCCACGGTGAGCTTGCTGTANAGGAAGAA
GGAGCCGTCGGAGTCCANCACGGGGAGGCGTGGTCTTGTAGTTGTTCTCCGGCTTGCCCA
CTGCTCTCCCACTCCACGGCGATGTCGCTGGGATAGAAGCCTTTGACCCCCGCGTACCTN
GGCCG

Sequence 1222

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGATACCTCACCGTGGCTGCTGT
CTTCCGTGGTCCGATGTCATGAAGGAGGTCGATGAGCAGATGCTTAACGTGCAGAACAA
GAACAGCAGCTACTTTGTGGGATGGATCCCCAACAAATGTCAAGACAGCCGTCTGTGACAT
CCCACTCGTGGCCTNAAGATGGCAGTCACTTNAATTGGCAACAGNACAGCCATCCAGGA
GCTCTTCAAGCGNAT

Sequence 1223

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTGTGTCAGTTAGTTATT
GAAATGGAAATGAATTTGAGGTTTCAACAGTTGTCTAGCAGTTTCCACATAAAAAGACAA
CACANGAAAGAAAAGTGGTTTCTAGCAATCAACAGATGAGTTCTGGCCATAGTCTGTAGC
CCTNTGAGCCAAACGCCCTTGGGTAAAGTTAATTACTCTTCATATTACACCAAATGCTGTC
GTACCTGCCCG

Sequence 1224

CCGCGGTGGCGGCCGGAAGGAGGATGGTATCACTCAGGCTCTCAGGGTGACACTGAAGCA

Table 1

AGACACTCATGGGGTAGGACATGACCCTGCCAAGGAGTTCACAAACCACTGGTGGAATGA
GCTCTTCAACAAGACTGCGGCCAACTTGGTAGTGGAACCTGGGCAGGATGGAGTACCTGC
CCG

Sequence 1225

AGGTACACTTTTGGCCAGGGGACCAAGCTGGAGATCAAACGAACTGTGGCTGCACCATCT
GTCTTCATCTTCCCGCCATCTGATGAGCAGTTGAAATCTGGAAGTGCCTCTGTTGTGTGC
CTGCTGAATAACTTCTATCCAGAGAGGCCAAAGTACCTGCCCG

Sequence 1226

CCGCGGTGGCGGCCGTGGTACTCCATCCTGCCAGTTTCCACTACCAAGTTGGCCGCAGT
CTTGTTGAAGAGCTCATTCCACCAAGTGGTTTGTGAACTCCTTGGCAGGGTCATGTCCTAC
CCCATGAGTGTCTTGCTTCAGTGTCAACCTGAGAGCCTGAGTGATACCATTCTCCTTC

Sequence 1227

AGGTACTTTTATTAATAAATAGTCACGCAGACAGTGCCCTGGTGGCTCTGCCCCGCATCC
CAACTCTGGGGTGGGGGAAAGGGGTCAACGTTTTGCGAGCCCCAAACGGGGCCATCACTT
GCCACCGAGTCAATATGATGCGGTTCTGCTCGGCGCGCTCCCGCGTACCTGCCCG

Sequence 1228

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATAAGTTCCCTATGGCTTATGGA
GAGTTATTTATTAATTAACCTTTATGGTAGGGCTAGTATGAATACCTTTTAAACAATTGCG
TGCTATTACAACAATGAAGATTCAAATGACTCCGCTTTGAAGGATGTTTTCTCTATATGG
TAAATATATATGAAGAAGTCTTGATTACNGTGGAGATCACTTGACTCAGAATACTTCA
ATGTATTTTGTTCACATTACCACTAAGCATATTATCAGTAACTATTAAGTACTGCACA
TTATGTAA

Sequence 1229

GGAGCTCCCCGCGGTGGCGGCCGAGGTACTCCCTTGTGGATAAACGCTTCTAGTTCTTGG
CGTGTGTTGGGTTGCTTTTCTCCTAAAACTGAATGGAAGTAGAACTTTCTAGGAACCCCT
TTCAAGCTGCAGTAATGATTTACTGAAGCAGAAAGAACATGGTTATTTTGAAGTCTCACNA
NAATAAANANANATAAAGTNCANATTTNANCNTNTTTGAATCAGGTTCCAGGAAAAAG
CAAACATGCACACCTAAACTTAAAGACCGTTTCATCACTATGCATACGTTTATCATTT
GACATCCATCAACTGTATACCTGGTTTCAAAAGTAAATTTAACTTGTGATCTCAGCATAG
CTCATGTNCACATTTTCATGCANAGGGTCCAGGAACTCAAATCACACTTTGGTAAGTCAC
CATGTTCACTCATTTTT.

Sequence 1230

CATTAGGCGAATTGGACTCCACCGCGGTGGCGGCCGCCCGGCCAGGTACTCCATCTAGTC
TGGGTGACGGAGCGAGGGTCCATCTAAAAAAGACATNGAAGNNCNGNAGAACT
GAGTTAGAAACCTTCTTCNATTCGGTGTGTTGGACCTTGGGAAGGCTGTTAAGCCTCCTGG
TGCCTAGTTTTCTCATCTGTAAACAGGCNTAATNAACACCATTTGCACATGGTTGGTAC
CTN

Sequence 1231

AGGTGCGGTATCCTTGACACTTGCTTCTCATACTTCAAGCTACTGCTTGGGTGGGTCCCG
TTGTAAACTANATGAACACTCATCTGACTATGGATATCATCACTCCTAGATACTCCTGCT
CATATGATCCACTTACCAGAGNNTCTGTNTGGACATCTTTAACCAGCTAGTAGTAACT
GCCCC

Sequence 1232

CCGGGCAGGTACCANGCTGTAACCAATACGATTCTGGGGCAGGTTG TGGGCGAGTAGAAG
AACCTCCTTCCCCTCTGCGACATTGAACGGCGTGGATTCAATAGTGAGCTTGGCAGTAGT
GGGTGGGTTCCAGAAGGTTAGAAGTGAGGCTGTGAGCAGGACCTCCTCCAGGGGACATG
CAATCTGCAGGGAGGGGCTGAGGGGGGTCCCATGGTCTCTGCTGTCTTCTGTGCCACCT
CTTTGTAGAGGAGCTTGAGCTCCAAGGAATGCTCTGGTCAGGGCTGCTGTGACTGTTGGC
CCTGCTGTCTTCTTCTTCTTGTCCCCGCGTACCTTCGGCCCGNTTCTTAAAACTNGT

Table 1

ATGGAGAGAGAGAAATTACTGGAGTAATGACTCTGAGCAGATGTGGATGGCATTAAATAA

Sequence 1252

GCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTACTGGCACTGAGCCAATGTATG
CTATCAAGGAAAGCTTTATCTGTCAGTGAAGCAAAAGGTGAAGTTCAATTAGGTCAGTTTT
ATCACTTCTTTTCTACACACAACTATGAGGAGAGATCATTTCTTTCTTTCTTTTATT
TATTTATTTTTTTTGAGACAGGGTCCCCTCTGTGCCCCAGGTTAGAGTACCTGCCCCG

Sequence 1253

CCGGGCAGGTACAGTAGTCAGCTACTTGGATATCAAGACTAAGTGCTGATATGAAGACTT
GCCTTTGTGTTTTGTTATGAAACACGCAAGCATAAAGCAGGACTCAAGCACAAGGCTGAC
TGTTCTACTTTGAATAACAGCTTCCTTGCACTCTCCTCCACATGGGTGGTACCTCGGCCG
CTCTAGAACTAGT

Sequence 1254

CCGCGGTGGCGGCCCGCCGGGCAGGTACAGAACTTTTGAAACACCGTCCCTTCAAATGC
TACCTTACTTAAATATGTAGACATTAGTCCATCCAACCTCTGCTACCAGGCAGTAACCT
TTCATAGATCTTCCAAAGAAAATGTTCTTGATAAAACCAGAAGAATCTTCTCAGAGAGAC
CCAGGGGAGTGATCTGACCCCTCACTGCTATCTTGACTTAAGTTTTAGCTGCAGCCATGGC
GACTCAAGTACCTCGGC

Sequence 1255

NCCGGGCAGGTACTAACCACAATAGAATTACCTATCCNTAACTCGTTAGCCCAACACA
GGCGTGCTTTAAGGAAAGATTAATAAAGGAACTCGGCAACACGAACCCCGCC
TGTTTACCAAAACATCACCTCTAGCATAACAAGTATTAGAGGCATTGCCTGCCAGTGA
CTNAAGTNAAANGGCCCCAC

Sequence 1256

CCGCGGTGGCGGCCCGCCGGGCAGGTACCTGAATTTACCAGTATTTTCTTTACGGCTTT
TGGATTTGACTCATAGTTGAAAAGGTCTACCATGTTCAAGGTCAATTAAGAAAGTATCCTG
TTTTTCTCCTAGATCTTGGGTAGCTTTTGGTGTGACCTTTACATTTTTTATTCAATTTGA
AATTTGGCCTGGTGAAGACAGGCTTTCCCTAGAATGCTGCCCAGGTAGCTCAGTATCA
AATATTGAAGTATCCCTATTTTCACTCACTCTGATTTATAATGCAATTTTTATCCACA
TATATTTGGATCTATTTCTGAACCTTTTTTTTTTAACATACATATTTTACACGTTCCAA
CTCTTAGAAATGTTCCATGCTGTTTCTGTTTTTANGCTCCTTTTANGTACCT

Sequence 1257

CCGGGCAGGTACTCTTGTTTAACCATCAGAGGTGATTCCATCACCTTCACAGCCCCAGCC
TCTGCTCCAGTCCCTCCCCAGCGAAAAGGGCCGCCCATGCCATCCTGCTGCTGGTGATTT
GCTTTGTGGTCATGGACTCAGTGGACATCATTATTTTATTAACCGTGTGGTAGGTTTTTA
ACTCAGTTATCCTGGATATCAAAGGTTTGTGGTCCATCTTAGGCTTCCGTTTGTCTT
TGGTACCT

Sequence 1258

CGNNGTGGCGGCCGAGGTACAAGATGCACTTGGTCACCCGGTTGTAGGCTCCAGGCTCCA
TGAACCAACAGAAGCTTCTTAAGTAGGAAAAGTGTCCGATGCGGTAATCCGAGTTGTTG
GTGGCCTGCATGCCCTTCACTCCCACTGATTCCACACCCACGTGGGCTGTCTGGATCATC
CCGACATCGTTGGCGCCGTCTCCGATGGCGAGGGTGATGGCCTTCACCCGCTTCTTCACC
ACATCCACTATCTCAGACTTCTGCAGAGGAGACACTCTGCAGCATATGACCGCTTTGCAC
GAGAGTGCCAAATCCAGGAACTCCTCCGACTTCGAAGGAGAGCGCGACCTGCCCGGGC
GG

Sequence 1259

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCTCGGTTGCAAGCACAAGCA
AATGTGCCAGGGTGGTTGATGCAGCTGTGGTCACAGGTCCTATCCAAAGAGCACTCATCC
ACATCTTGGCAAGACTTCTCATCTGTTAATAATTTAAATCCTTTCTT

Sequence 1260

GAAACCTATTGGGGACCAACTGAATTCACCGTAATACTTAGATTCGGTTCCTTTAAATGTT
GCTATATATTTAAATGCACACTCATATAAGCATGTCCCATTTGGNAACTCTCTGAAATCGT
CTAGAAATTTTGACTCCATTCGTGAAAAATTTTTNTACATCCGGGAACAGTCCACTTATT
ACTTTCTGTGGCCTA

GGGGCAGGTACATGCGAATCCTATTGGGAACCTACTGAATTACCATTGATACTTAGATTCCGTTCCACAAAATGTTGCTCTATAATTGAAAAGCAAACCTATTACAAGCATGTCCCATTGGGAACCTACTGAATTCGCCCTAGAAATTTTATTCCATTCTGTGAAAATTTTGTATATCCCGAACAGTCCCACTTATTACTACTCGGCCCTGATCGGAACTAACCGAATTCACCATGTTACTNAGATTTTCGGCTCACCCAAGTTTGGATAAATCTTTGA

CCGGGCAGGTACGCGGGGACCCGGCGCTCCATTAATAGCCGNAGACGGAACCTCGCCTT
TCTCTCGGCCTTAGCGCCATTTTTTTGAAACCTCTTGCGCCATGAGNAGCCAAGTGGA
GGAAGAAAGCCGAAATGTTGCAANGCNTGAAANCCGCCAAANAGNAANGNAAAGAATTGA
AGGGCAGNTAGTGTTCCAAAGNTAAAAACNCGCCTAGNCTTTGTTTTGCCACCCCGCTGG
GNAGNGCCCANCAAGGNAGTCCANNAAAACANTGTGNAATTGNCACAAGAACTGCTTGG
GGGGGANTGCCTTGGNTAANCCNNTCGNGGCNCGGCCTCTCTAGTAACCTTAAGNTNGG
GAATCCNCCCACCCGGGGGTCTTGGCTANNGCGAAANTTCGGATTAATTCCAANAGGCCCT
TTAATTCCGNATTAACCCCGTTCGCTAANCACTTTTGTAGGGGGGGGGGGGCCCCCCNG
GGTTATCCCCCAAGACCTTTTTTTGGGTG

CCGGGCAGGTACACTTTTGGTCAGGGGACCAAGCTGGAGATCAAACGAACTGTGGCTGCA
CCATCTGTCTTCATCTTCCCGCCATCTGATGAGCAGTTTGAAATCTGGAACCTGCTCTCT
GTTTGTGTGCCCTGCTTGAAATTAACCTTCCCTAATCCCCAGAAAGNAGGGCNC AATAA
GATATCNCCTTCGGGGGCTCGNCNTNCTTAAGAAACCTTAANTTGGGGTAANTTCTCCCC
CGGGGGGNCNTTGGCCAAGNGGANANTTATCCGNAATTAANTTNATAAGNCCCTNTTAAT
NCTGGAATTAACCCCGGNTGCCTNANNCTCCTNCNGTNAAGNGGGGGGGGGGGACC
CCCCCGGGGGGATTAACCNCCCCNAGGCCCTTTNTTTGGTATTACCCCCCTTNTTAT
NANGCATAGGNAAGGGGGGGGGTTT

CCGCGGTGGCGGCCGCCGGGCAGGTACAACCTTAACTGTATTGTATTCATGTTGCTAA
ACAATATTGGCCTTCTCGATGATTTTATTCATGTTGCTCCAAAGTTAAACCCGTGTAGAA
CTAAGTAGGTGAAGAGATATTTTGATAAGTGCCACAGAAGAGAAAATATAATAAATTA
ATAGTGAATTGAGCATCACTAGAATAAAATAAATGAGTAGGCATTCTAAGATGTGAA
TGATCACCTAAGATATACATGCTCCAACCATATTGATTTTGTAACAAACACAGCAGCCC
ATAACAGTTTGTGGCTCCACTAAGTGCTCTGCTGTCCCATCTAAGAGGGTTATGTTT
CTCCTATTTTAAAAATAAAATGGTAGTTTAAATTAGCCTGACGGGATGTTTCCT

ATCATACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACCTACT
TACCAGCCCTTGAACCATTCTATATGATGCTCCTCCCAATATTCTGAAACATGTGGTTG
GACAGTTCAGTAAGGTAAGAAATGCCAGCCTCTAAGGGGAGGAAGAAAATTAAATGATT
TGTTGTATTTTTTTTTCTGTTGGGTCAGTAGCTTTTTCTGTAACACGGGGTCATGGTTT
TACTGCTTAACCTCACCAATTCTGTATGGACAGAGAAGTTACCTTAATAAAATTCACATG
TAATTAAAAAAAAAAAAAAAAAAAAAAAAAAGTCCCT

AGGTACGCGGGGCTTTTCACAAGATGGCGCCGAAAGCGAAAGAAAGGAAGCTCTGCCCC
TTCTTAAAGCCTGAAGCCCCAAAAGCCGAAGGGCTTTTAAAGCCAAGAAAGGNCA GTGT
TGAAAGGTNGTCCACAAGCCACAAAAAGAAGATCCCGCACGTACCCACCTTCCnnn
nn

Table 1

ACTGCAAGGAAGCTGTTATTCAAAGTAGAACAGTCAGCCTTGTGCTTGAGTCCTGCTTTA
TGCTTGCGTGTTTCATAACAAAACACAAAGGCAAGTCTTCATATCAGCACTTAGTCTTGA
TATCCAAGTAGCTGACTACTGTACCTGCCCGGGCGGCCGCTCTAGAACTAGTGGATCC
CCCCGGGCTGCAN

Sequence 1281

TCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGTGGANAGGAC
CNTNTNAAAAAAAAACNTNAAACNGAAAAGGATTNNTGTTTNAATATTGACANAANCCA
AGGAACACCATCTGAAGTTCTGATGGCAACATCAGAAGCTAAGAGAAAGGCATGGAAAAG
ATTCTCACCTAGAGCATCCAGAGGAGAAGGTTGGTCTGCAGACACCTTGTTTTCTGACC
TCTGACCTCCGCAACTGTGAGGGAAGAAATTTCTGTTGCTTAAAGACACACAGCTTGTGG
TACCTGCCCCG

Sequence 1282

CCGGGCAGGTACGCGGGGAAGGAACCAAGAGGCCACTTGTATATATAGGTCTCTTCAGCAT
TTATTGGTGGCAGAAGAGGAAGATTTCTGAAGAGTGCAGCTGCCTGAACCGAGCCCTGCC
GAACAGCTGAGGAATTGCACNTGCAANCCCTTNAANTGANNAACCAANTAAGAAATTTCC
CTTTGGGNANAAGCAANGCCCTACNGGGCAAACCTTAAAAAANTGNCCANTNTTCCACC
CNTGGNAAAACCTTTGTATTGGNGAAGGGGNGGGAAAAAACCTCCCTNTNGGAATAGNA
NTTTTTTGGAAAGGAACCAANAGNTTTNTTTTTTACCCCGGGGAACCTGNANGTTTTTT
CCAGGAAAAATCTGTTTGAAAATTTCNAAAAAGNCCCCANCCAANTNGATTGGCAAAACN
CTTAACNTTGGGGGCCCTTAATTCCNTAAACAGNCCAACCCCTCCANNAAAGGGGGG
CCAAAAAACCNAAAGGGCCAATAGCCCCCNTTGGGNAAAATTGGCTTNTNANCCGTT
TAAAAAAGG

Sequence 1283

CGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGGGGNAATTGGGCATAATTTACTA
GCCAATTTAGGAAGTTCCCCTCACATCAGTAACATACAGTACATCACCAGTATGTCAGA
GGACACAATGGCATAAGTTTGCCTTTGCAAGGTTTGAGGGATGGCCATTTCCCGACCTGA
CTCAGGAAAGTCTGTAGCTGATATCCATCTTCAAGTTTGNGGNTCTTTCTCTATATAT
ATATTTGAGTNCAGCAGTCATGCTGGAGTCCAGAGTAGGTGATTTCTGCTTTAGCTT
GACTCCTCCTTAAGATTGCAACTCTCTCAGTTTTACATTTTTTTG

Sequence 1284

CCGCGGTGGCGGCCGCCCGGGCAGGTACAACCTCCTCCTAGCGTTTCTGGTTAACTATGT
GAACACACAGGCAGACAGATCAAGCCGCTATGTGAGGGACAAATAACATACTGAAGACC
TAAAAATGTGAAGTCAGCTGAGCCTCAATTCAATCCAAACCTTTGGGGGGCTTATGCACC
ATTAGTCTGTATCATGGCCTCCAGTCATTTGTCCCTCTAGAACAGGAACCTCTGAAAGGCC
TGACAAAGAAGAATGGACAATCACAGATGCTGGTTTTGCCTTCTCATTCCCTGCAAGTCT
ACTGGATGCAGGAAGAGGGTGGGGGGTTCAAGCTGCCTGCTTAGGAGCTTAAACATGAC
AAGGGATTTTCTAATGAAAAGCTAACCAGAGATTCTCTTTTCTATGATACACAGC
ATCCATCATTCAAAAACCGAAAAAGGGAC

Sequence 1285

CGAGGTACAAGGACCACCAGCATCAGCATCACCTGAGAACTTTTAAAAATGCAGAATCC
CAAGTCAGCTGAATCACAGTGTGAATTGTTAACTAGGTTTCCCGCTGATTTTCTATGAAA
ATTTCTGGTCTATACGGAGTGTATATGACAAATATATACATGTGTGGCCATGCAGACATG
CTTATTCTCACCTATGGCAAATAGAACACAGCTCTCCATGGTCAGGTGCTTCCATCCCTA
ATGGCTTCCACCAAGTGAGAAAGACATTAAGAGTCAGAATACTTTTGCTGTAATTCTCTG
GTAAATTTTGGTACCTGCCCG

Sequence 1286

CGAGGTACAGAAGAACTTGATTCTATAATTGATTTGACAAAAGAAGGCCTATCCAACCTG
CAATACAGAAAGTCCAGTATCCCCCTGGAGTCACATTCGAAAGCTGCTTCAAACCTCAA
GGAAACAACCCCATTTGGCACAAAATGCAGTCCAGGTTCTGAGTCCTTTGAGCACCTGCC

Table 1

Sequence 1300

[illegible]

Sequence 1301

CCGGGCAGGTACAGATCTCTGCAGTTACAGGAACATCGTCTGCTTCATGGTAAATGCAAT
TTCCTGTTCAGAAACCACACTAACATTACTTCTTTCAGTATTTCTGCCTCAAAGTTGGTT
TAAGATTATCATCATTATAAAGAAAAATTTGTNCTANTTGCTGGNCCAAAGGGAAAA

Sequence 1302

AACTCCTATAGGGCGITTTGGAGCNCACCCGCGGTGGCGGCCGCNCTAGAANTAGCGNA
NNCGGCNTTCNGNAGGANTANTTTATCAAGCTNATCNATACCGTNGACNCCGANGGGGNG
CANNGGAACCCANACTTTGAGTAAaaaaaaaaaaaaaaaaaaaaaaaaaaaaNANTAAN
CATGGNCATAGCTGGGACCNGTAGTGAAATTGTTATTCCGCTGCACAATTCCACACAAC
CATACCGAGC

Sequence 1303

AGGTACACTTTTGGCCAGGGGACCAAGCTGGAGATCAAACGAAGTGTGGCTGCACCATCT
GTCCTCATCTTCCCGCCATCTGATGAGCAGTTGAAATCTGGAAGTGCCTCTGTTGTGTGC
CTGCTGAATAACTTCTATCCAGAGAGGCCAAAAAGTAACCTCCCNNGGGCGGGCCCGCTT
CTTAAGAAACNTAGGTTGGATCCCCCGGNCNTGCCATGGGAAATTTCCGAATTAT
TCAAAAGGCCTTTATTCCGAATTAACCCCGGTTCTGAACCCCTACNGAAGNNGGGGGGNG
GGCCTCCCGNGTTTACCCCTCAANGCCNTTTTTTTNGTTTTNCCCCCTTTTTTAAGGTC
GGNAAGGGGGGTTTTAAATTTTNGGCCGGCCCGGCCTTTGGGGTCNGGTTANAATTCC
AATTGGGGNTACCAATTAAAGGCCTTGGGTTATTNCCTTGGGTGGNTNGGAAAAAAT
TTGGGGTTTTAATTCNCCGGNCTTTCNAACCAAAANTTTCCCCAACCCAAACCAAAACC
AATTANCCCGGAGGGCCTCCGGGGGGTAAGGCCAATAAANAAGTTGGTTAAAAAAG
NCCCTTNGGGGGGGGNTGNCCCCCTTAAANTGGAAGGTTGGGAAGCCCTTTAANA
ACCTTCCAACCAATTTTAA

Sequence 1304

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAGGCCAAGGTCTCT
CTGTGACTCGCCGCCCACTACCCAAGTGAATGAGTCTCCCTAGAGCTTTGCTACTCAGA
GGGGTCTGAGGACAACAGCATGGGCCAACAGTGCCTCGAGCTGCCTGGAGATCTTGTT
CAAAGGCAGATTCTGAATGAGTAGGTCTGGGTGGAGCCTGAGAGTCTGTACCT

Sequence 1305

[illegible]

Sequence 1306

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTNGCTATAAAATTGGTATTTGTA
TCTTCTCCCATTTCTGCGCTCCCCCAACCCTGCAGGAAGGTGGATTCTTCAAGGGAAGT

GAGGAGACTCTTCTGTTACCAACCAAGCCAGGAAGTTTCATGGCTTGGGAAGCCCCGCGTA
CCTN

AGGTACGCGGGAACACATTTCTTTGGGATTTTGCCCTTCCTGGGGTATAGGGGATCAGAA
ATATTGATCCATGTGCACGCAGATAAAATGGCTTCTGCTAAACAGACTAAAATCTTTCTC
TCTAGTCTTTCTCACTTGTACCTGCCCGGGCGGCCGCTCGACCGTCTTTCCCTTTTCGCC
TCCACCTCCTTCTTGAGACCAGCTGTGTTTCAGCTCCCCCTTCCCTGGGCCACACTGAA
TCTCTGTTACCTTACAAACCTGCTGCCTCTAAGAGTAAGGACCCCTATCCCCATCCCA
AACTCAAACCTAAGCAACCTGCAGCCTCATCCATTTCTCCAAAACATGTGAAAGCAAAAG
AAAAATAAAAACTAACTCAGCAATCTTGTCTTTCTACAGTGGNCTTTTGGCTAC

GATCATATAGGGCGAAATTGGANCTCCACCGCGGTGGCGGGCCGCCCGGGCAGGTACGCA
GGGGGCGCTCTGTAAGGCACATGGAGGTGATGATGTTTCTTAGAGAGAAGATCACTTGAAG
AAACTTCTGCTTTAATGACTTTACGAAGCTGGCAATATTACAATCCTTGACCTCAGTTGA
AAAGCAGTCATCTTCAGCCGTTTTTCCAGCACCTATAAGCCACCCCCCAAGTGTGGTNTA
TTGCCCTCCCTCGGATTGCCTCCNGTTAECTTCGGGCNCGCTTCTAAGAAAACTAGGTT
GGGAATCCCCCCCCCGGGGCCCTTGCCAGGGAATTTTCGGAATNATCAAAGGCCCTTAATT
NGAATACCCGGTTCGAACNCCTTCNGGAGNNGGGGGGGGCCCGGTTAACCCCCCA
ACCCCTTTTGTGTTTCCNCNTNTTAAAGTTGAAGGGGGGTTTTAAATTTTGGNCC
NNGCGCTTTTGGGGCGGTTTTAAAAATNCCAATTGGGGTTTCCAATTAAGNNCNTTGNTT
ATNTNCCCTTGGTTGGATTGGAATAATTTGGTNTAATTCNCCGGCCTTCCAACC

GC GGN GGC GCG CCG CCG GGC AGG TACC AGC AGA AAC CTG GCC AGG CTCC CAG GCT CCT CA
TCT ATGG TGC ATCC ACC AGG GCC ACT GGT A n
n
ACT TACT GGT CANG CCA GTATA AAATA AAAC TGG GCC CCCCC GGT ACCT TCG GCC CGCT TCT
AANA AAC TTAG GTT GGA ATTC NCCCC NGT GGN CTTGCC AAGG GAA ATTT CGGA ATAA
TTCAA AGCCTT TAATTC GNAATT ACCN CGGTAN CCGAAC CCNTT NCGNA AGGG GGGGGG
GGGGG CCCCC CGGG GTTAA CCCCCA AANC CTTTT TTTN NGTTTT CCCCC CTTTTT TAAAGN
TTGGA AGGGGG GTTAAA ATTTTT GNCNG GCCCG CCTTTT GGGN CCCTT GAAATTC C
AANTTGGGGTTC CAAATTAANG CCTTGG TTTTTN CCCCNTTGGTTGGTNGG NAAAAAT
NTTGGTTTNAATCCCCGG CCTTCCA ACCAAAAATTTTTCN CACCCAACCCA

TGCCAGTGGCCCTGTTGGATGCATCATAGATGAGGAGCCTGGGAGCCTGGCCAGGGTTTC
TTGTTGGTACCTCGGCCCGCTCTAGAACTAnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nn
nnTAGTGAGGGTTAATTGGCGCCGCTTGGCCGTAAATCATTGGTCATTAAGCTGTTTTCC
TGTGTGGAAAATTGTTTATCCCGCTTCACAATTTCCACACAACAATACCGAAGCCGGGG
GAGCAT

CCGGGCAGGTACAAACTTATGAAGAAGGTCTCTTTTATGCTCAAAAAAGGAGACAAGGTC
TCAGGAAAGGAGTGGGTAAACACTTATCTCCAGAAAGCCAGCAAGAGGGAAGAAGGAAG
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GAAAAATTGAAGGACCCATGTTTTAGATCAAGATGCTCCAGCTAGTAACCTGAACAATG
GAGAAAAAGGAACTCACAGAGAACATCTACCTGGAAAAATGCAACCACCTTTGGGAAAAAG
GTAAATACTAAAAGTTTCAGAGAACAGAAAGTGTTGCATACAAAAACCAACATGAGA
ATGGCTTTTAACTTTTCAATATCAGCTCTAGATGTTTAAAGACAATAA

AGGTACGCGGGGACACTTCCGGGGCGCGGCGCCGGCTTGCTGCCACTGCAGAGCCCCGCCA

AAATTGGGAAATATTGGCCCTTTTGAATAATTGTCCAAATATTACATTCAAATAAAAGT
GCAATGGGAGAAAAAAAAAAAAAAAAAAGGTACCTGCCCGGGCGGCCGCTCGATGCTT
GGTGCTGAAGTATAATTAATTTGAGTGTTTGCTATGTGCCATAAACTTTTCTAAATGC
CCTTTACATACATTAGTTATCAAAACAACCCCTNTCCTGGGTAGGGGCATTTATCCCCATT
CTTCAAGATGAGGGAAACTGAGGCCACCAAGAAATGGTTTCCAAGTTTGGTACCCTCG
GCCG

[illegible]

Sequence 1020
AGGTACTTTTTTTTTTTTTTTTTTTTTTTTGTCTTGGTTTCTGAGTCCAGTC
CCCTTTGCATAAACGCCCGGCGTGGCTCTCTCAGCGTCCCCGCACCTTCATGCNCAGCAN
ATTCTTGGACAACCTTTGTCTTTCTCT

[illegible]

Sequence 1022
AGGTACAGATAATGAGGGTTGTAAATGAAAGAGAGAGGAGAGGTGAGACGAAATGAAGA
CAGCTAATTTTTCATTCGACAAAATCAGGGTTCAGAGACATTTGTAGCTACACTGCCCAA
TGCAGCTACTATTAGCCACATGTGGCTACTTAAATTTAAATTAATTAATAAATTAAGTACCT
GCCCCG

CCGCGGTGGCGGCCGAGGTACCAAGTCAGGTTGTTCAATTTGAGCCAAACAACAGATTCTT
GGTTATTGTGCTATTGCCACAGTAGGTCCTATTTGCATTGAATTTGTGTGTTTTAGCTT
CTCTCCTTTTACGTGTTGCTTTATGCTACTCTCCAAAAGTCCTTCTGTAGAAGTTTATT
AAGTTGTATAATTTTCTTTGCTCTGTTTTGTTTTGTTTGACAGCCTGGGTTGGTGGTTT
TATAAGCCATTTCCATCATCAGTTTCCTGTCTGCTGGGGGTTATCTTAGTGCCCTCA
TGAATCGGGTGTTTTTCAAATTTCTCCTGAGTTCTTGTGGCACTGGCCCGTTTGGGAC
TTTGGAGTGGTGGATGCTTTTTACACCCTTTCTCCACATTTCTCATGCCAAGGTCACC
CACCAT

Sequence 1524
ATAAAGATGATGCTTTTTGTTATTGNCCTGCTGTTTNGTATGTGTCTGAGATAAGGGAT
AGAGAGGAAACATCCGTCAGGCTAATTTAACTACATTTTATTTAAAAATAGAGAAACAT
AACCTCTAGATGGGACAGCAGAGGACAGTTAGTANAGGCCACAACTGTTATGGGCTGCT
GTGTTTTGTTCTAAAATCAATATGGTTGGAGCATGTATATCTTANGTGATCATTTACAT
CTTAGGAATGCCTACTCATTTTATTTTATTCTAGTGATNGCTCAATTCACATTAAATTT
ATTATATTTTCTCTCTGGGGCACCTATACAAAATATCTCTTCACCTACTAGTTCTAC
AGGGTTTT

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Table 1

CCGGGCAGGTACCTTCTTGGCAGAGCCAAAGTCACCCGTTCTGCTTTTGAGGGAAGGAAT
TATGAGAAATTCCAATTCTGCCTTCAAGCAGGAACCTTCCCAGCCATTTCTTGAAAGG
TTGTTTACAAGGTCACAGGCAGCCACAAACATGATAAAAATTCATTCTGTACCT

Sequence 1326

CCGGGCAGGTACTCCAAAGATTACAGGTTTACTCACGTCATCCAGCAGAGAATGGAAAGTC
AAATTTCTGAATTGCTATGTGTCTGGGTTTCATCCATCCGACATTGAAGTTGACTTACT
GAAGAATGGAGAGAGAATTGAAAAAGTGGAGCATTACAGACTTTGTTCTTTCCGGCAAAGGA
CNTGGGTCTTTCTATCCTCTAGTACCCTTNGGACCGCCTCTTAGAACCTANGTTGNGNAT
TCCCCCCCCGNGGCTTGGCAANGGAAATTTCTTATTAATTCAAAGNCTTTATTGNGCAT
TAACCCGNTCCNGAACCCCTTCTGNANGNGGGGGGGNGGGGGGGCCCCCGGGGTTANNC
NCNCCAAGGNCCTTTTTTTTTGGTTTTTCCCCCTTNTNTTAANGGTTGGNAAGGGGGG
GNTTTTAANAAATTTTNGGCCGNCNCCGGCCCTTTTGGNGNCCNGGTTAAAAANTTCCAA
TTTGGGGTTCCCNATTTTNAAGGNCATTGGGTTNTTTTNCNCCNTNGGGTGGNTTCGGNAAA
AAANTTTTGGTTNTAATTCCCCGGTCTTTCCAACCAAAA

Sequence 1327

CGCGGTGGCGGCCGAGGTACTGNAAATCGTCAAGGGTGAAAGGTCGATCGCNTGCCAGCT
TGCTTCCACTNGATTCTCGGATTTTTTACCGGTANTGATGTTGTAACATTTCGTATCCAA
GGCTCCGCAAAGTTNGNCACNTCGGTATGTGANAAGGCTNTCCTCATTCCCACNTATATT
GGNGTTACCTTGGCCCNCGGTCCNAGGCCCNCTTAATTAANAAACNTTANNTTGT
ATTCNCCANCCGGGNCNTGNCAANNGTAAATTTTTCGTAATTAATACNANANGNCTTTTA
ATTCGNNATTANCCCGGTTCTNTAACCCCTANGATAGGGGTGGNGNGTGNNGNCCACAC
CGGNGNTTANCAACCNAANNATCCTTTTTNTGNATATTTNACCNTNTTTNNATGNTTG
GNAAGGGGNGGTAATTAANAAANTATNGACNCNTCCNTCCNTATTGGGAACNGAATAAAAA
NTTCAAATTGNGGGATTCCAANTTNAGTCCATTGNCATTTNTTCCCCCTTGGTTGGANT
TGNTAAAAAAA

Sequence 1328

GGTGAAGATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGACTTACA
GAGAGTTCCAAGAACTATGATCCTGCTTTACATCCTTTTGAGGTCCCACGAGAATATAT
AAGAGCTTTAAATGCTTNCCAAAACCTGGAACGAGTATNTTGCAAAACCATTCCTTGCTTC
GNTGGATGGTCACCGTGATGGAGTCAATTGCTNNGCAAAGCATCCAGAGAAGCTGGCTAC
TGTCCTTTNTGGGGCGTGTGATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGAATTG
TATCCGTACCT

Sequence 1329

CCGCGGTGGCGGCCCGCCCGGGCAGGTACGCGGGGGAGCAGAAGCAGAAAAGGTTGTTGT
TACCAACTTGAATGGTCACACCGCCCGAGTCAATTGCATACAGTGGATTTGTAAACAGGA
TGGCTCCCCCTTCTACTGAATTAGTTTCTGGAGGATCTGATAATCAAGTGATTCAATTGGGA
AATAGAGGATAATCAGCTTTTAAAGCAGTGCATCTTCAAGGCCATGAAGGACCTGTTTA
TGCGGTGCATGCTGTTTACCAGAGGAGGACATCAGATCCTGCATTATGTACCT

Sequence 1330

AGGTACAGATACATGGACACAATCATGGCAGCCAGCTCGAGGCCCCCAATTCAGCTGCC
ACACCACCCACGGTGACTNGCATTAGTTTCGGATGTCATACAAAAGCNTGATNTGAAGCAA
CACCTCTACGTTTTTGGTCGTAGAGCTCTTTTGTCTTNGNGTGAAGGATTTTCATTTT
GGGGCTTGTGNTTTGGGATTGNACNGNTTTGTTCAATTTGNNAANACCATNAAATTGGG
TGTGTGTAAANAANGNCCAACCTTGATTTTCATTCTTNTTTGGNATAGTATATGGGNGN
TTGTAAGGTTTCNCCTTTCAAAAAAANTTCCCCGNTTANTTAGNATTTGGNGTTTGT
AAANGACTCCAACCATGTNCAAACCTTTTGAAGGCCCCCCCTTTT

Sequence 1331

AGGTACGTGGGCCTGTCTGCAAACAGTGTGCCGTGCCAGCCAAGGACAGGGTGGACTGC
GGCTACCCCCATGTACCCCCAAGGAGTGCAACAACCGGGGCTGCTGCTTTGACTCCAGG

Table 1

ATCCCTGGAGTGCCTTGGTGTTCAGCCCCTGCAANGAAAGCANGAATGCACCTTTCTT
GANGGCCACNCTCCAGCTGACCCCGGCACTGNTTNTAGTAACCTAGCTGGGTAATCTCC
CCGGGTGCCTGGCNAAGGGAAATTTCCGNATANTTCAAAGGCNTTTATNCCNNNTTAA
CNCGGNTNNGTACNCTTCNGTAAGNGNGGGGNGGGGCCNCTCNGGGTTTACCCCCAAAT
CTTTNTATGGNTTTCCNCNTTTTNAAGCTTGAAGGGGGGTATAAAATTCTGGACCG
TCCGGCCTTNTNGGGCCNGGTTAACATTTCTAATTGNGTNTCCAATTAAGGGTCCNTGGN
TTTTATTCTCCTTGGATTGGTTGGA

Sequence 1332

TTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACCAGTGAGGCATTTCTGATTTT
TACTCATAATATTTACAAAGATTAAGAGATAAAATTCCAAATGTGAAGGCTTAAATTG
TTCAAATCCTTACTCAAAGAAATAGTGGGAAAGGTGGGTAAGTCAGAGTCTGCTGCCGAT
GAAGGAAAAAATCAAGTTAATCTCTTCTGAAATTATCATGATTTGTTTGGTTTATNATT
CCCCAAAAAAGTCCCT

Sequence 1333

AGGTACTAAAGCATTCATGGAGGCTCTTCAGGCTGGTGCAGACATCTCCATGATTGGGCA
GTTTGGTGTGGCTTTTATTCTGCCTACTTGGTGGCAGANAAAGTGGTTGTGATCACAA
GCACAACGATGATGAACAGTATGCTTGGGAGTNATTCTGNTGGAGGTTTCTTTTCTNACTG
TGGCGTGTGACCCATTGGGTGGAGNCCCATTTGGNACAGNNGGGCTACCCCTTGCTCCGAG
GNCNGGCANGCTTGCTACTAGNAANTTAGATGNGATCCCCCGNGGNCTGGCNAGGGAA
CTTNCGTATTATCNAAGGCCTTATTCCGGATANCCCGCTCCGTACNCTANGGATAGGGG
GTGGGCNCCCCGTTACCACCAANCATTTTNTGGTTTNCNCCCTTTAAAGGATGNANGGGG
GTTTTAAATATNGCTGCCGGCCTTTGGGCCGTTAAATTCCAAATTGGGGTCAANTA
AGTCCTTGGATNTTNCNCCCTTGGTCGNTTNGAAAA

Sequence 1334

CCGCGGTGGCGGCCGCCCGGGCAGGTACCAGGGTCTGGTGGGATGGTGAACCGTGACGA
GTACGCCATCAGGGTAAAGAACTCGTCCAGACTGTCAACTGTGATCCTGGACTCGCTGTA
GGTGAGTAGCGAGTTCTTAGATCCTAAGAGACTGATGCATACATGGGGAAAAACAAATAT
AAACCTGGCAGTTGTACCT

Sequence 1335

CGGGCCCCCGGGCAGGTACATTTCTTGTAGACTCTGNTAATTTCTGCAGCTCCTGG
TTGTTCTGGAGCAGATGATCTCAATGGAGAGTCTCTCGTGGTTCCAGCCCTNTCA
TTGCGAAAGCTTTTTANCNTCANAAAGCCGTTTATTACCTGAGGCCAGGGTGGTCTTCA
AATAAGGGCCCCAAACAATTCAACCGGTNCTTCCAAGGGGTGGGGCCAAGNATAAANGGG
CNTGGANCTTNTCAAGCTGGCTTGNATTGNCAAAGNTNTCCCTTTTTTTTNGGGTGCCCT
TACTACTNGGTAAGGGGCGNAAAAGGGCNAATTAATNCCCTNGTTNCTTCTGNTCGNC
AANANTGNCNTNGCCGNGGTATTGGNNTCCANNAAAATTGGTNTGGAACCAAAATGGGGT
NGGAACCTTTCAATTCTCCAACCAACNCTTTTTTGGGNTACNTTAGGCAATNGNGGCCT
TGNNTTTCCAAAATTGGTTTACCACANAAGGCCAAATTCNCCCGNCCTTTCAAGANCAA
TTTCNAAAACCGTTTNAAGGTNAATTAAGGGGNNCTTTTTTGGGANCANGGGAACCCCC
CNATTAATTTGNCCAACCTTTTGGGGGGGG

Sequence 1336

GTGGGCGGGCCNGCCCGGGCAGGTACAGCTGAAGCCTCGTAACCCAGACTACAGAAGCAA
TAAACCCATTATTCTCAGAGCTCTCTGTGACTACAAACAAGATCAGAAAATCGTGATAA
GGGGGATGAGTGTATCCTGAAGGGACAACAAACGAGCCGAGCAAGTGGTACCCTCGGCC
CGCTTCTAAGAACTAGGTGGGATCCCCCGGGGCCTGCNAGGNAATTTCCGAATATTCA
NAGCCTTATACGAATACCCGTTTCGNACCTTCTGAAGGGGGGGGGGCGCCGNTACCCAA
GANTTTTTTTGTTNCCCTTTTNAAGATGAAGGGGTNTAAAAATNTGNCGCCGCCNTTT
GGGCCGTTAAATTCATGGGGTCCATTAANGCCTGGTATTTTNNCTTGGTTGNTTGGAA
AAAAATTTGGGTNTAATCCCCGGCCTTCCAACCAAAATTTTNTCCACCAANCAAAACCAA

TTANCNNGNAAGGCCCGNGGGGAAGGCCAATTAAAAAAAGGTTGGTTAAAAAAGGCCCT
TGGGGGGGGGTTGGCCCCCTTAAATTTGAAGGGTTGAAGNCCCTTAAACCCCTCCAN
CAATTTTA

[illegible]

AGGTCACAGCTGGAGCAGAGTTGCACCTTCACTGTGTAGAATGGCTTTATCTGAGCCACTAC
ATTCTGCCATTGACTGCGTTNCTTCNCAATCTTCCCAAGATCTCCACAAAAAATGCA
TTTTCCCTGTCAGGGTNATGTTTCATNAAACATACNCTTNTCAATAACANTTCCCAAAG
GGTTTTGNTTTCCTCAATNCCAACAAGGGNTCANACCGGNAGTTAAGNTTTNGCCATT
CCATNCAAATAAAAAANTCCCCTTTTCACTCTCCACCCACCTTATNTTCTCAACANANAN
ACCCGGAACAGTTTANTTANAAACCCNAGGGNAAAANGAACCAAGGAGGAACGNGGCC
ACCCAAAGCCTAATGGTCTTGGGGTCCCTTTANGNAAATTANTGCCAAACAAANAAATG
GTACCANAGTTTGGGGNAGGAATGNGAACCCCCCTTATCNATTNAGCCTNGCGTT
TNCCCCAAAGGGGTGGGCTTCAAACC

TCCTATAGGGCGCAATTGGGAGCTCCACCGNGGTGGCGGGCCGAGGTACTATGGGAACAGG
TTCAAATGAATATAAGGGAGTTATTTATATATTAGGTAAGCACAAAAATGATAATTAC
TGGACTGCACACTCACAGGTTAAAGGTCATTTGGGNGCAGNAAAAATGTCCGGACCCGTT
TGGGGAACACAAGAACCATTAAACCTGCTTGTAAGAAAGGAAGCCCAAGGGGGGGGGTA
AACCACAAAAAGCCGTTATTTCAAGAAATANGCTTGGTGGGAAAAAGCTTGGGGGGGGAGG
ACCACCTTGNAAAAAAACTTAAGCCANATTAAGGCCGTTGGAAAAAAATTCAACCTT
TAAAGNNTAAAAAAAAATTA AAAAACCTTTTCAAGGAGGGGGCCTGGAAAGGCCTTA
TTTTTGAAAATTTTAACCCANACGNAATTTTANGTAAGNATTGAAAATTGGCCCCAA
AAAGGAAGGGGAATTTAAGGTAAAAAAAATTTTNTTCCCATTTGGCCNAAAAAATNAC
CAAACCAAGGTTAAATTGGGGCNCCTCCCAATTCCAACCGGAACCATTTGGTTANAAAC
CCCCCAAAGTCCCCCAAGGAGGTTNACCNCTATTGGTTAAAGGTTGGAGGAAGGTTT
TGAAGGTTGCCANAATTTTGGTTAAATTAAGGGGAAAAATAAAAAAACCAA

Sequence 1346
CCGCGGTGGCAGCGGCCGCGGCGAGGTACCATCACCCCTTCATGCTGGCCCTAAGCTT
TCTCCAGCAGTCCCACTTCCTGATATTCGTTCTCTTCAGCAGCCTAAAATACAGCTTTCT
TCTGTCCCCAAAGTAAGCCGCTGTGCTCATTTGCCCTAATGAACCCTCCACTTCGCCAATG
CGTTTTGGTGGTGGTGGTGGGATCGGAGGNACCTCGGCCGCTCTAGAACTAAANGGA
TCCCCCGGGCTGCAGAGAATTCGATATC

Sequence 1341
CGCGGTGGCGCCGAGGTACCAACATGTCCCGTGGTTCAGCGCCGGTTTTGACNCGCCA
CATTACCAATTTTTACCCGAGGGTCGGCTCTACCAAGTAGAATATGCTTTTAAGGCTAT
TAACCGAGGGGTTGGCCCTTACATCAGTAAGCNTGTGAGGAGGGNAANAGGACCTGTTGNC
ANNTANATNTGTTCAACCACCAGNAAAGAAAAAGTTACCCTNGCTCCNGGNGCGGGCCCCG

TTCTTANGAAANCTTATGNTGGGATTCCNCNCTCGGNGCCTTGCCAAGGGAAATTTCTG
ATTATTTTCNNANGNCCTTTANTTCNGGAATTANCCCCGNTCGGATCCCTNCGGAGGGGGGG
GGGGGGGGCTCCCGGGGTAACCCCCCAAGGCTTTTTTGGTATTCCTCCCTTTTAAAGATTG
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TTGGGGTTNCAATTAAGGNCNTTGGTTTTTNCCTTGGTGGTTGGNNAAAAAATTATTGN
GTTTAATTTCCCCGCCTTTCAACCAAAATTT

TCACTATAGGGCGAAATTGGAGCTCCACNCGCGGTGGCGGGCCCGACATCCGCCGCCCGAG
GGATCGTTGGCAGCCCGGTGGGAGTGTGGCTGTGTTCTCGTCCCTGGCTGACAAACGAAG
GGGAGCTAGTCACTTTTCCTGCCACAGACGACTCGCNGTCCGCCTCTCGCCTGGAGTACC
TCGGCCGCTCTAGAAACTANGTGGATCCCCCGGGCCTGNAGGGAATTCGATATCAAAGNC
TTATCCGAATACNCGTCCGNANCTCTGAAGNNGGGGGGGGCCCGGNTACCC'CAGNCTTT
NTTNGTATCCCCCTTTTAAAGTTGAGGGGGGGTTAAATTTTGGCNGCCGCCNNTTTGGGCTG
TAATATCAATTGGGGTTCANTAAAGCCTTGATNTTCCCTGTGGTGAAGAAATTTNG
TTTAAATNCCCGNNTTCAACAAATTTGCCACCAACCAACCAATAACCGTAAAGCCCCG
GGGGAAGGNCCAATTA AAAAGNTNGTTAAAAAGNCCCTTGGGGGGGTGGCCCTTNA
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CCAATGAAAATTCTGTGCCATTCCAAGAATACCGCCAGCATTGGCCTTGACAAATGCCA
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GAAACAAGGCCAAAAAGGTNCACCCCTNAATTTTCAATTGGAGGGGCCAAACCTTCATT
GGACCAAGGAAACCACCAAGGCCAAAAACCAAGNAAAAGTTAACCCCTTTGGGGGNNCC
GGCTTTCTTAGAAAAAATCTAANGTTGGGGGAAATCCCCCCCCCGGGGGGGCCTTTG
CNAAGGGGAAAAATTTCCCGGAATTAATNTCNAAGAGGCCCTTTAATTTCCGGAAATA
ACCCCGGGTCCGGNAACCCNTTCNGGAAGGGGGGGGGGGGGGGGGCCCCCGGGGTNN
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CGAGGTACGCGGGAGGAACTGCTCAGTTAGGACCCAGAGGGAACCATGGAAGCCCCAGCT
CAGCTTCTCTTCTCCTGCTGCTCTGGCTCCCAGATGCCACCGGAGACATnnnnnnnnnn
nn
nGTCAGAGTGTTAGCAGCTACTTAGCCCTGGTACCTTGCCCGGGCCGGCCCGCTCTAGA
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GCTCCAATAAGCTTGGNTTTTNCCTTGGTGGTTGGAAAAATTTGGTTNTAATTCNCCG
GCTTCCAA

GGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGCCATTACTGCAGGAAAAGGTCCCCG
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GCCTTCCAGCTGTTTGACCGAACAGGTGATGGCAAGATCCTGTACGTGCCAAGCATCCTC
GTGCGACCGCGAGAGCCCGGGGAGCGGGGGCTTGCCGGCCGTTGCACTCATTTACCCGGG
GACAGGGGAGAGGCTCTTCTGCGTGTAGTGTTGTGCAGAGCCTCATGCATNACGGAGCAT
GAGAAGACGTTCCCTGCTGCCACCTGCTCTTGCCACGGTGAGCTTGCTNTAGAGGAAG
AAGGAGCCGTCGGAGTCCANACGGGGAGGCNGTGGTCT

CCGGGCAGGTAACCATCACCCCTTCATGCTGGCTCTAAGCTTTTTCCAGCAGTCCCACTTC
CTGATATTCGTTCTCTTCAGCAGCCTAAAATACAGCTTCTTCTGTCCCCAAAGTAAGCT
GCTGTGCTCATTGCCCTAATGAACCCTCCACTTCGCCAATGCGTTTTGGTGGTGGTGGTG
GCGGTAGCGGAGGTACCT

Table 1

Sequence 1353

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGNCATGGTACCACGGGCCCT
GGGCACTGCATCTTCCCAGAGAAGCAGACTCCACAGGGGCCCTCATGACCATCTTCTCTG
GAGAGGCGAGGCCAACTCCCTCGACAGCCAAAATCCAGAACCCTCCCCCGCGTACCTCGGC
CGCTCTAGAAGTAAGTGATTCCCCNGGGCTTGCAGNGGAATTTGCATATCAANGCTTA
TNCGTTACCGTNCGNACCCTCGAAGGGGGGGNCCCGGTACCCAGCGCTTTTGT

Sequence 1354

[illegible]

Sequence 1355

[illegible]

Sequence 1356

GCCTGGGATACCAGTGGCCCTGGTGGATGCACCATAGATGAGGAGCCTGGGAGCCTGGCC
AGGTTTCTGCTGGTACCTNnn
nnnnnATNAAGCTTATCGATACTCGNCCGACTTTNCCAGGGGGGGAAACCTGTCTGTGCCA
GCTTGNAATTGAATCGGCCAACGCCGCGGGGAGAGGCGGTTTTGCGTATTGGGC

Sequence 1357

CCGCGGTGGCGGCCGAGGTACCCGGGAGGCTCGCATGTGTGGGTGCATGCCGTGGCAGGA
GAAGGATGGGTGATCCCTAAATTACCTTCGAAGAGCCATGCATGCGTCTCTGGCTGCT
CCAGGTGTAAAAATGCCAGGGAGGGGACAATCATGAGTCTAGGCAGGAAAGGTCCTCT
GGAGAGAGGAAATGGCACACGCGCAAGCAGCGGAGGCATGAGGGGCCAGGGTCCTGGAGGA
CACTGGCGCGGGACAGATCANACTCCAGGCAAGGAGGAGATGGCGCCAGACTGTGATCA
TAAGCTTCACGATCCCCGCGTACCTGCCGGGGCGGCCGNTCT

Sequence 1358

CTCATAAAGGGAATAAGCTTGCGGCCGCTTAATTAAGATCTTTTTTTTTTTTTTTTTTT
AACCTTTAATCTCTTTGGACTTTATCCTTGGGCTTTTCTGAAAGCACTTTCTGTCCAGCC
CTTGCTGTCAACCAGCCAAACCTAGCTACCTACAGGCCCCAGCAGCTTTCCTGGCTCT
GCTTCNAGCCACCCGGCCTTNCACCCCTTCCCATACAATTGGTGCTACCAACCCCTTCN
AATAACCCCTGGTCCCCCAACCCCTCCCCAATTACCTGGGNTCCCTTTCAACCCCTTC
NCAACNAACNTTNGTTTCTCCNCAACCCCNCNTTTTTAACCTTNTTTTTGGCCCTNCCC
CCCTTCNTTAACCTTTTTTTTGCCCTCCCCATNGGGNTGNCGTTTTTTTCCCAATTTT
TGGCCCAACCCCTTTCNAAAATTTGNAACCCCCCNCCAATTGGGGGAATTTTATTTGG
TANGGGGTTTTTGAAAAAAGGNTTTTTTNTCTAAGCCTCCNTGGGGTCTTNTAAAAA
AANNAATNCANCCNTTTTTTTGTAAAAAANTTT

Sequence 1359

CCTCCTAAAGGGAATAANCTTGC GGCCGCTTCATTAATAAATAGACAAACTTCTTATATC
TCTGCCTTCTGACCATCAAAGTGAATAATTTAATTC AACAGGTCTTATTTTCATTTCCT
TTGAAATTTTCTAATTGCCTTCCTTTCCAAGTTTACCATAGGTGCCTTGATTCCCTTCT
NGGAATAACCGCAANAAAAAGAAAANGAANTGGGAAAAAANTAAAGTTAAAGGGGTAA
GGGGAATTTANTAAAAAGGAAGGTTTCCCTTCCCTTGGATTNCNTAAAGGTTAATTC
GNGGAANCCCAAAAAACCTTGGGTGGGTGGTTGTTAATNCCTTTTTCGAAGGGGAAAAG

Table 1

GGGGGGGAAGNAAGGGGAATTGGNGGCCAACCNCCCAATTCNTTTCTTCCCCCTTCNA
AAATTTGGCCCCAAGGGGAACCNCTTCCCCCCCCCTTNCCTTGGGAAGGGGAACC
CNTTAANCTTTCAACCNCCANTTGGCCCTTCCCCCTTCCCCGGGAACCCAAANNAAG
GGGGCCCCCAATGCNAACCTTTTTCNAANTAAACCNTTGGGNTTNTTGGNAAGNGGGNG
GNGGAAAAAGNCCCCCAANGGNCTAAACCCCAACCAAAAAAGNCCCTTGNCTAAANGGN
GGAAGGGAAAAANTAAAGGGGGTTTTGGGGGGGAAAAA

Sequence 1360

CCTCCTAAAGGAATAAGCTTGC GGCCGCTTAATTAAGATCTTTTTTTTTTTTTTTTT
TTTTCTTTNAAAACAGCGTCATACTAAAGTTTATTTTTCTTTACACAATTATAGAATTC
AGGCAGACAAGGAGACATATATTGGAGTTTTCCATTTTTAATATTGGTTAAACAAAATA
CATNTTTTTTGNATAANCAAACCGNCANGCACCAAAGGGCCAAACNAACCAATAAANGGG
AAATAAAAAANGCCANAGGAAANAAAACCAATAAAAAANGCCCTTAGGGGGGTTTGGCNC
CCGTTATATTGTGGNGNCAATTCANGGGGGTTCAAGGGGGCCNNTTNGGTTNCAANCTTT
CCCCTTTAAAAAAGGGGAAAAGGTNNGGGGGGGCCCTTNTTTTNGGCCCCCTTNTGG
GGNGNCNANTTANAANGNCAATTGGGGGGGGTCCCTCTTNGGTTTNCCTTAAAGGC
CAACCCCAAGGAANATTTGGGGGAATNTATTNGNANACCCANGGNANGTAAAAACCC

Sequence 1361

CTAAAGGGAATAAGCTTGC GGCCGCTTAATTAAGATCTTTTTTTTTTTTTTTTTTTT
CAGGTTGGACGAGTTTGTATTAAGGCATTCTGACTCCTTCACTCTCCCCAGCTCCCTCCA
TGTCAATCCCTTGGCAGAAACACTGTAGACTTATAATGGATGACAGATGCAGGCTTTTG
AGAGGGGACCAAAAAGGGAACCACTTCTTCCCACTTGGGGGGTGTGGGGGGTCAAGTC
CATTCCTTGGGGAGGGGGNGCTTGGACCATTAGAAGGGGGCNAAGCTTCAAGGGGNC
TTTACCAGGCCCACNAGGCCCACTTATTGCCCACTTCTNTCTTCCCTTGGTGCCAGGG
CTTCAATTTATNGGGGAATTTTCTTGCCAAGNCTTTTCC

Sequence 1362

CNGCCCGAGGTACTTTTTTCTTAATTTTTTTTTTTTTTTGAACCAAGCAGGTGTATT
CTGGAAGAAAAATCAGACACCCTCCCTGGTTAAGAATTAGTTAACTATAATGTATTGGTGA
ATTGAGTTTATAGTCTTTTGGTGGGGGTAAAGGGCCCTCAAAGTCATAGCAGGTTTAGT
TGTACCTGCCCCG

Sequence 1363

ATNGGAGCTCCCCGCGGTGGCGGCCCGAGGTACATTTCTTTCTGTGGTTTTCTTTTGCT
TCTTAGAAATCTGTAGTGGTTAGTAAAGAATTTGAAAGTACGCGGGGCTTTCTTTCCG
CGCCGATAGCGCTCACGCAAGCATGGTTANCNTGCCATAAACCCGCCGGACTTTCTGTAA
GAAGTGTGGCAAGCACCAACCCCATAAAGTGACACAGTACCTGCCCCG

Sequence 1364

AGGTACTCAGAGTGAGGATTTTCTGCAACCTGCGTTGTCCCTCCAGCATCTGCTCTGGC
TCCATGGCGGACCCTGCAAGTCACAGTCCCCGGTATACCAGTCTGGGCGCCGGGAGCACCA
CGAGCAGTAGAGCAGCAGAGTGGGACAGTCCACGACTGGGCGCCTACATGGGGTCTGGAA
ACTCTACGACAGTCCCAAGTACCTGCCCCG

Sequence 1365

AGGTACCTTGGTGTTACTTCTTTGAAAGATGGACATTTGAAAGTTAAAAATCAGTCACT
ATATAGGCACTGCTGTATGGAACGCATTTTGTGTTTCTACAAATTGAAGCGGGAAA
TGCCTTTGGAGTACCTCGGCCCGCTCTAGAACTAGTGGATCCCCCGGGGCT

Sequence 1366

CGNGGTGGCGGCCGCCGGGCAGGTACTGTTTACTACACACTTAAAAACCGAGTGTGNA
GTGCCTTAGGGGAAGAACACTTCTCCTGTCATGAAATGTCTTAAAGTGAAGGAAAAT
TTGAAGAACGCTNTTGATCAGAAGTCCAGACTGTAAACATAATC

Sequence 1367

GGNGGCGGCCGAGGNACGAGGGCCTTGGTTNAGNGGGGGGAAAACCCCAACCGCAAAAN

CNNCAGACNCGCAGGCNCGCNGNNNGTGAGAGNGAACGGGGNCCCACNCCCANANACACNGA
 ACCNGGCNGGGANACCAGNGGCCCNCGNGGANGCACCANAGANGAGGAGCCNCGNGAGCCA
 GGCCTGGTTNCNGCGGGGACCNCGCCG

ACTATTAGGGCGAATTGGTAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTTTTGTTTG
TTTTTTTTTTTACCTTAAGGGAGGATTTAATTTGCTCCCACTGATTGCACTTAAAT
GAAAATTTAAAAATGAATAAAAAGACATACTTTCTCAGCTGCAAATATTATNGGAGAATN
GGGGCACCCACAGGNAATGAANAGAGGAAAGCANCITCCNTAACCTTCAAACCATT

CCGGGCAGGTACCAAAATGGTTTTTGAAGTTAGGGAGCTGCTTTCTCTTCATTCTAG
TGGGTAGCCCCAATCTCTCCATAATATTNTGCAGCTGNAGAAGTTATGNCCTTTTATTCA
TTTT

GAGCTCCCCGCGGTGGCGGCCGCCGGGCGAGGTA CTGGGCTCTGACCACTATTGGTTTTG
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TGATTACACTTCTCTCGAGGTGACCATTGATGGCAGGAAC TACATTGTCGATGCTGGGT
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AAGGTGCTTGTTGTCTTTCCGTTTGACGGAAGAGATGGGATCTGATCTGTATCTAGACCAA
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TAAATTTTTCATTTTAAAGTGACAATCAGTTGGGGAGCAAATTAATCCTTCCTT

NCCGGGCAGGTACTTACTTGTGACTCTCCTCTCATGCCTGGGCCCTGCTTACAGGTG
TGATTGTGACACATAGCTTGGCCTAGCCCTAGGTTATGTNACTCTCCTCTTATCCTTCA
GTTATTTTCAAGGGGCATTGCGACATATTGCTGGACTTGGGAACCCAGGTGATGTGAC
TCTCCTCTACTGNCTGGAATCAACCAAAAAAAAAAATNAANANAAAAAGNNCCCTN
CGNCCGCTCTAGAAANTAGTGGGATC

CCGGGCAGGTACCAAATGGTTTTGAAGTTAGGGAGCTGCTTCTCTCTTCATTCCTGTG
GGTGCCCCAATTCTCCATAATATTTGCAGCTGAGAAGTATGTCTTTTTATTCATTTTTAA
ATTTTCATTTAAGTGACAATCAGTGGGAGCAAATTAATCCTCCCTTAAGGTGAAAAAA
AAAAAACAAACAAAAAANGTACCT

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACCTGATTGCATTGCACTT
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TTTCTCTTTTCCCTTCCCGCCACTGATTCAGTGAGCTGGAGATTGGATCACAGGTATA
ATTCAAGCTTTCATGTAGTCATGTAGATCACTAGACTCCTTGGTGTACCTGCCCCG

[illegible]

AGGTACCTGNAGGCCTCCTACACCTACCNCTCTCTGGGCTTCTATTTCGACCGCAGATGA
TGTGGCTCTGGAAGGCGTGAGCCACTTCTTCCGCAGAATTGNCCGANGAGAAGCGCNGAG

Table 1

GGTACGAGCTGTCTNCTGAAGATGCAAAACCAGCNTGGTCGGCCGCTNTAGAACTAGAT
GANATCCCCCGGGCATGCAGGTAATTCGATATCAAAGCCTT

Sequence 1377

CCGGGCAGGTACCAAAATGGTTTTGAAGTTAAGGGNGCTGCTTTCTCTCTTCATTCCTGT
GGGGGCCCAATTCTNCATAATATTTGCAGCTGAGAAGTATGTCTTTTATTCATTTTT
AAATTTTCATTTAAGTGACAATCAGTTGGGAGCAAATTAATCCTCCCTTAAGGTGAAAA
AAAAA AAAACAAAAGTACCTN

Sequence 1378

[illegible]

Sequence 1379

CCGCGGTGGCGGCCGAGGTACTTTTCTAGTAGTGACCCAGTAAATATCTNTNCAACAA
ACTTGGCTTTGCTGGTGTGCAAAGTGTAATATAAGGAAATTAGTGACATTTTTTGCCT
TTTAGTGTGTAACNTGGGAATGTATANGTATAGAAAACAGAGAGATAGTTATATTTTA
ACAACCTTGAATTCATAGGTGTTAATAGATTCTCTTTTTTGAATTAATATCTCCTAGG
ATTTTGATCACTTACAGTGGTTGTATGCACTACCTTA

Sequence 1380

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTT
TTCCAAAGCCTTGTTTTATTATATAGAGTCCTAACCACCTCGGTGGTAGGAGGGGTG
GGAGAGGCTCCTTTTTCAA

Sequence 1381

AGGGCGAATTGGAGCTCNCGCGGTGGCGGCCGCCGGGCAGGTACTGTGTATCATTGCA
GNCTTGCTTTTTTGGTAATGGATTCTAGATTCTATGAGGATACCACAACCACTTTTAA
AGAGGTTTCTAAGGNCAGTTGCAGTGCTTACGCCTGGGAGACCAAGGTGGGAGGATCACT
TGAGCTCAGGAGTTCGAGACCAACTTTGTCNTT

Sequence 1382

ACTTAGGGCGAATTGGAGCTCNC CGCGGTGGCGGCCGAGGTACTTNNNTNTTTTTTTTTT
TTTTTCTTCTTAGTTGTTTCTTGGTTTCTGAGTCCAGTCCCCTTGCATAAACTTCAT
GCGCAGCAGGTTCTTGGACAACTTTGTCITTCTCTCGGCCGCCATGGTAGGTTCCGCCCA
GCGCCGCACTC

Sequence 1383

[illegible]

Sequence 1384

Sequence 1004
TACTTAGGCGCAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAACAGAAACCTGGCC
AGGCTCCCAGGCTCCTCATCTATGATGCATCCAACAGGGCCACTGGCAnnnnnnnnnnnnnnn

Table 1

AGCAGCGTAACCAACTGGCCTNGGTAACTTTTCGGNNGG
 ANGGACCAAAGGNGGAGATCAAACGAACTGTGGCTTGACCATNTGNCTTNATCTTCCCN
 CCATTTGNTGAGCANTTGAAATTTTGGAACTGCCCTTTGNTTGGNNGGGCCTGCTGAATA
 ACTTCTATCCCAAGAGAGGCCAAAGTTACCTGCCCCGGGGCCGGCCGCTCTAAACTAGT
 GGGATCCCCCGGGCTGCAANGAATTGATATCAAAGCTTATCGATACCCGTCGACCTTCG
 AAGGGGGGGGGGGCCC
 Sequence 1385
 CNAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCGCGGGGGACATTATGCCCGGCGG
 TTCGGGGCGACGGA CTCTCCATTCCAGAACCATGGCCCAATTTGTCCGTAACTTGTGGA
 GAAGACCCCCGGCGCTGGTGAACGCTGCTGTGACTTACTCGAAGCCTCGATTGGCCACATT
 TTGGTACCTGCCCG
 GTAAATTCATGGGTCACTTAGCTGTTTCCTGTG
 TGAAAATTGTTATCCGCTCACAATTCCACACAACATACCGAAGCCCC
 Sequence 1386
 GCNATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTNTTCTGTGTGACAATTACTGCA
 CAGTCTTTCCTCTGACAGCTACTGATGTAAGGCCACCCTGGTTAATAGCCTTAAAGCA
 TATTCTACTTGGTAGAGCCGACCCTCGGGTGAAAAATGGTAATGTGGCGGTCAAACCG
 GCGCTGGAACACCGGGACATGTTGGTACCTGCCCG
 ATCATGGTATTAAGCT
 ACATTACCGAGCCCCGGGGAGCATAAAAGTGTAAGCCTGGGG
 Sequence 1387
 ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAAGAAATGCATGAAGTGGCAANTTATT
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 AGCAGCTGCAGCCTTAATATGATCTTCCGGTCTTCTGACAAGCANACTGACAAGTGGG
 TACCTGCCNG
 Sequence 1388
 CTTNGGCGGGCCCCGGGCAGGTTCTTTGGCCTCTNTGGGATACGAAGTTTTTCANNAG
 GNTCACAAACAGGAGGCAGTTCCAGATTTCAACTGCCCATCAGATGGCGGGAAGATGAANA
 CAGATGGTGCAGCCACAGTTGTTGATATCCACTTTGGTCCCAGGGCCGAAAGAAGGCA
 GACCAAAATATTGCTGACAGTAATCCCGCGTACCTNGGCCGGACCA
 Sequence 1389
 AGGGCGAATTGGAGCTCCACCCGCGGTGGCGGCCCGAGGTACGCGGGAGGAACTGCTCAG
 TTAGGACCCAGACGGAACCATGGNTTCCCCAGCGCAGCTTCTCTTCTCCTGCTACTCTG
 GCTCCCAGATACCACTGGAGAAATAGTGATGACGCAGTCTCCAGCCACCCTGTCTGTGTC
 TCAGGGGAAAGAGCCACCCTCTCCTGCAGGGCCAAGTCAGAGTGTTGGCAGCAACTTTGC
 CTGGTACCTGCCCCG
 Sequence 1390
 CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGANGTCCNNNNACACCCNNNGTGC
 ANNGGTCTTGGCTNGCCNATGCCNCCACCATTGTCCANAAGACTCAGTTAACATTATTG
 CAGTACAGACGGTTATTGATCCACGATGATAGAAGAGGAT
 Sequence 1391
 CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACTTTGGCCTC
 TCTGGGATAGAAGTTATTGACGAGGCACACAACAGAGGCAGTTCCAGATTTCAACTGCTC
 ATCAGATGGCGGGAAGATGAAGACAGATGGTGCAGCCACAGTTCGTTGATCTCCAGCTT
 GTCCCCCTGACAAAAGTGACCT

Sequence 1392

Sequence 1393

Sequence 1394

Sequence 1395

Sequence 1396

Sequence 1397

Sequence 1398

Sequence 1399

Sequence 1400

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nnnnNGATATCAAGCTNATCGATNCCGNNAGACCTCGAGGGGGGGG

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTT
AGAGATGGGGGTTTACCCTGTTGGCCAGGCTGGTCTCGAACCTCTGACCTCAAGTGATC
CACTCGCCTCGGCCTCCCAAAGCGCTGGGATGACAGGCGTGAGCCATTGCACCAAGACCC
GATAGGTCTAAGGGGTCTCATTTGAGTCATTGTATATAAATTTTTTTTCAATGTTTTT
GTCTAAAAAATTTAGACAGGGAATGCACTCTCCAATTACCTTCAACTGCTACCTNTCCT
TATTTTAATNNCCNAAAAACNNATTTTGGCCTTTAACAATTTTAANNAATTTAACCCCAA
AAATTTGTTNTNTNTAAAAAATNTTTTTTATTNNGGNGGGGCCNANCAAAANCNGG
GGGGGGACCCNNGGGGGGGGTTTCANTTTTNCNCNCAATTTTAACCNGGGTTTCCCCNGGA
AAACNNGGNNGAAAAAAGTGNGGGGGNCNTTTTCCCAATTNAAAAAANTNNGGGGAAANAA
ACCTTTTAAANNANGGGGGTTTTTTTTNCTTTTTNACCNNNNCAAAAAATNNTTTTTT
TTT

AGGGCGAAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACGCGGGGAGGAACTGCTCAGTT.
AGGACCCAGAGGGAACCATGGAAGCCCGAGCTCCACTTCTCTTCTCCTGCTACTCTGGC
TCCCAGATAACCACCGGA

[illegible][illegible][illegible]

CCGCGGTGGCGGCCGAGGTACAGAAACATTTTAGAAAAAGAAAGGGAACCTTCAGCAACTG
GGAATCACAGAATACCTAAGGAAAAACATTGCTCAGCTCCAGCCTGATATGGAGGCACAT
TATCCTGGAGCCCACGAAGAGCTGAAGTTAATGAAACATTAATGTACCTGCCCCGnnnnn
nn
nnnnCGACCTCGAGnn
nnnnnnCGCTTGCGGTAATCATGGNTAAGCCCTGTTTCTGTGTGAAAATTGTTATCCCGC
TCACAATTTCCACAACATTACNAGCCCGGGGAGCATTAA

Table 1

GGGGGGGGTAAAAAAAAAANGGGGGTTTTTTTNGNCCCCCTTTTTTNCCCCCCT

Sequence 1413

[illegible]

Sequence 1414

AGATGATGCTTTTTGTATTGTCTGTCTGTTTGTATGTGTCTGANATAAGGGATAGAG
AGGAAACATCCGTCAGGCTAATTNTAACTACATTTTATTNTAAAAAATAGNAGGAAAA
CCATAACNCTTNTTTAAAAAGGGNGTNNNNAAANTTTTTTTTGGTTTNTGGGGGTGNG
GGTTTTTAAAAAANAACCCCCCAAAAAANGGGGGGTGTNTCCCCCCCCCAAAAAAN
NGGGGNGTTTAAAAAAAAGTGNGNNNGGGGGNTTTTTAAAAAAAANNCCCCCCCCAAN
AAAANGGGGGGGGTNTTTTTTTTTTTTTTTAAAAAAAANNAGGGNGGGGTTTTTTTTT
TAAANANNNGGGGGGGGANAAAAAAANGGGGGGGGGGGGGGGGGGTGNGGGTCCCCCTN
CCCCCNCNAAANANNNCCCCCCCCCCCNTTCTCANTTTTTTTATTATNTNTAAAAATT
TTTCCCCCCCCCCCCNTTTTTTTTTTTNGGGGGGGGGGGGGGGGGGCACTNNTNTTCTNTT
TTTTTNNCAAAAAAATTTTTTTTTTTTATTTTNTNTAGNGGGGGGGNTATTATA
NTTTTTATACCCCCCCCCC

Sequence 1415

AGGTACCTGCAGGCCTCTACACCTACCTCTCTCTGGGCTTCTATTTTGACCGCGATGAT
GTGGCTCTGGAAGCGTGAGCCACTTCTCCGCGAACTGGCCGAGGGAGGAAGCGCCGAG
GGGGCTACCNAGGCGTNCTCTGGAAAGATTGGGGGNCCCCCCCCAAAATNTTAAAGGAA
AAAAANNNAANNNCCCCNCGCCCCCCAAAAAANNGGGGNTNCCCCCNGGGGGNAT
TTTTTTTTGGGGGGGGGGGGGNNNNCCCCCNGNTTGGGGGGGGNNNTTNNCCCC
CNTNCCCCCCCCNGGGGGGGGGGNNCCCCNTTTTTTTTTTCCCCCCCCTTTTTTTTTT
AAAAAAAAGGGGGGGGGGGNAAAAAATAAAAAAACCCTCTNTTTTTTTTTTA
NAAAAAAAAGGGGGGGNNTTTTTTTTNNGGGGNNNNNGGGGNNNNNNAAAAAATA
TTTTTTTTTTTTNNNCCCCNNNNNNCCCCCCCCNNNNNCCNNNTGNNCCCNATAT
AATNNCCCCGGGGGNGGNNNGGGGGGGGGGNNNNNNNANNTTNTTTTTANCCCCCCC
CCCCTTTTTTTTTTNNGGGGGGGGGGGCCCCCCCCCNAAAAAANGGGGGGGG
GGG

Sequence 1416

[illegible]

Sequence 1417

CCGCGGTGGCGGCCGCCCGGGCAGGTACCAAATGGTTTTGAAGTTAGGGAGCTGCTTTC

Table 1

[illegible]

Sequence 1418

[illegible]

Sequence 1419

TATAGGGCGAATTGGA NCTCCCCGCGNGGCGGCCGAGGTACTTTTTTTGTTGTTTTT
TTTTTTTCACTTAAGGGAGGATTTAATTGCTCCCAACTGATTGCCACTTAAATGAAA
TGTTAAAAATGAATAAANAAGTACANTACCTTTTTTCAANCNTGGCAAATAANAATTTAA
TNGNGNAGAAAAATTTTGGGTTNGGGGTTTGGGGGTTNTTTTTNCCCCNTAAAAAAAAN
TACCCCTTNNNCCCCCTTTTNNCCCCCTATAAAAAANCCCCCCTNAAAAAAAAN
TTTATGGGGGGGTTTTTTTTNAAAAANATAAAAAANANTTTTTTTTTGGGGGNTGTGT
CNAAAAAANNCTAAAAAAGGGGGNGGTNTNCCCNAAAAAAGGGGGNGNTNTTAAAAAA
ANGNGGGGGGGGGGNTGTANAAAAATAAATATTTATTTTTAGGGGGGGGGGGTNGNCCC
CCCCCTNTNAAAAAANNNANNANGNGGNCCCCCTNATTTTTTTTTTTNCCCCNCTTTC
CCCCCTNTCTACNTCTTTTTTTTTTTTTTTTTTGTAAAAAANNGNAATTAATNNCCCC
CCCCCTTNCNTTTTTTTTTTTTTTATCTNTNNNNCCCCCCCCCTTAANTTGTNCTTA
ANATTATTNATAATAAANATNGTTTTNTATTTTTNCCCCCCCCGGTNGTCTCCCCCGCA

Sequence 1420

CTTAGGGCAATTGAGCTCNCCGCGGTGGCGGCCGAGGGACCAAGGTGGAATCAAACGAA
CTGTGGCTGCACCATCTGTCTTCATCTTCCCGCCATCTGATGAGCAGTTGAAATCTGGAA
CTGCCTCTGTTGTGTGCCCTGCTGAATAACCTTCTATCCAGNAGNAGGGCCCAAAGTAA
AANTAAAAAGGGGGGNTTTTTTTAAAAAACCCCCCNCCCCCTTTTTTTTTTCCNNG
GGGGGGGGGGGGGNGGCCCCCTTCCCCCGGGGGGGGGCCCCNATTTTTTTTTTCC
CCCTTTTTTTTTNAAAAAGGGGNGNNAAAAAAAAAAAAAANATCCCCCNTTTTTTT
TNAAAAAAANGGGTTTTTTTTTTTTGGGGGGGGGGGGGGGGGNNAAAAAATTTTTT
TTTNCNNCCNNCCCCCNCCNTNTNCCCTNTNTNCCCGGGGGTNTNGGGGGNNTA
ATTNNNGNTTTTTTCCCCCCCNNTTTTTTTTTNNGGGGGGGGNCCTCCCAAAA
AAAAAANGNNNGGGGGGGGGGGGGGGGTTAAAAAAAAAAAAAAAAAAAA

Sequence 1421

AGGTACCTTGGTGTTACTTCCCTTTGAAAGATGGACATTGAAAGTAAAAATCAGTCACTA
TATAGGCACTGCTGTATGGAAAACGCATTTTGTGTTTCTACAAATTGTAAGTCGGNAAAT
GNCCCTTTTTGTAGTATCCTTCGGGNCTTCCCCGGGGGGGNCCCCCTTTTTTTCCCC
CCTTTTTTTAAAAAGGGGGGGNAAAAAAAAAAGCCCCCNTTTTTTTNAAAAAAG
GGGNNTTTTTTTTTGGGGGGNGNGGGGGGTTTTNAAAAAANTTTTTTTTTTNN
CCCCNNNGCCCCCNNGTCCCCCTTNGNCCCNNTNCCCCCGGGGGGNNTNGGGGGG
NNTTNGGGNTTTTTNCCTCCCCCTTTTTTTTTTGGGGGGGGGNCCCCCCCCNA
AAAAANATNTTTGGGGGGGNTTTTTAAAAAAAAGNAAAAANNTTTTTTTTT
TNNNTTTTTNNNNNGNCCCCCGGGGGGGNGNAAAAAAAAAANTTTTTT
TTTNAAAAAAATTTTTTTTTTNCCTCCCCCCCCCANAAAAATTNAAAAAN

Table 1

GGGGGGGGGGGTTTTTCNCCCCC

Sequence 1422

AGGTACCTGCACAATGTCTACCCAGAGATGTTTGTTCTGACCTGACGCCCACCTTCTAT
GGTGCCATCAAGAACCTNNGCACCAACCAATGCCTGGATGTGGGTGAGTAACAACCCGCG
GNGGGGAANGCCCCCTCAATCAATGGNTTTTTNAAAAAAACCCTTCCCTTTT
TTTTGGGGGNGTNCCCCCGGCCCTTNCCTCGGGGATTTGGGGGTTNGTTTTTTT
CCCCCGGGGGGGGGGGGGGNNTTTTTTTTTTTCCCCCGGGGGGGGGGGCCCCC
CTTTTTTTTTTCCCCCCTTTTTTTTTTAAAAAAGGGGGGGGGGGANAAAAAAA
AAAAAANCCCCCCCCCTTTTTTTTTTAAAAAAGGGGGGNTTTTTTTTTTGG
GGGNNNNNGGTNNTNAAAAAANNTTTTTTTTTTTTNCCTCNGGNNCCCCC
CNNNNCCCCCTGTNGNCCCCCTNTTNNCCCCCGGGGGTNNNNNTNNGGGGGGGTTTTN
NNGNTTTTTTCCCCCCCCCTTTTTTTTTTTTNGGGGGGGGGGGGNCCCCCCCCC
NAAAAAANANATTTNTTTGGGGGGGGNTTTGNANNAAAAAA

Sequence 1423

AGGTACATATTTATGCCAGAAAGCTTGACAAACACTGAACAGTCTGTAAAAAATGGAA
AATCTCTTGACCATCAATTAATAAATAATATAATTTAACTATTTTGCAGCCAATACCTAA
ATTTTACCTTTTAAATTAANANTTANATTTTTTTTTTTTANAAAAAACCCTTCT
TTTTTTTTTCCCCCTTTTTTTTTTNAAAAAAGNCAAAAAANGNCAAAAAANGTAAAA
CCNTTTTTTTTTTGGGGGGGGGGGNCCCCCCCCCTTTTTTTTTTNCNCCCCNTTTTTT
TTTTTTTTTNGGGGGGGGNGNTAANTATNTTCTTNCCTGGNGGGGGNNTTTTTTTTT
TTTCNCCCNCAAAAAAANGTGTNGGGGGGGNNAATNNTTTTTNTATANAAAA
AAATTNCCCCCNNGCCCNNTTTTTTTTTTNCCTCCCCCTTNGGGGGGNTT
TTAATACCTCTNNNCNCCTTGGGGGGGGGGGGGNTTNCCTTTTTTTTTTTNT
CCCCCCCCNTTTTTTTTTTTNANAAAAANAANGGGGNNNGGTNGNGTGCCAAAT
NGNTTATTTNTTTCCCCCCCCCTTTTTTTTT

Sequence 1424

AGGTACTTTCTTTTTTGTGTTTTTTTTTTTACCTTAAGGGAGGATTTAATTTGCTC
CCTACTGATTGTCACTTAAATGAAATTTAANAAATGAATAAAAAGGACATACCTTCTCA
GCNTGGCAAAATAATTTATTGGGGAGGGGNAAAAAATTTTTTTNTTTTTTGG
GGGNNNGGGNTTNNAGGGGNTTGGGGNTTCCCCCCCCAAAAAANAANCCCCCTTN
CCCCCNNTTNCCTCCAAAAAATCCCCCNAAAAAANNNANTTTGGGGGGGGN
GNTTAAAAAANANAAAAATTTTTTTTTTNGGGGGGGGGGGGGGGGNTTAA
AAAAANGGNGNTTTNANAAAAAANGGGGGGNGNTAAAAAANGGGGNGNGTT
TAAAAAATAANAAANNTTTAAAAANGGGGGGGGNNNGNTNCCCCCCCCCAAAAA
AAANGGGGGGGGNGGGG'VCCCCCCCCNTTTTTTTTTTNNANNCNCCNNNNCCCCC
CNACNANTCCCCCTTTTTTTTTTTTTTTTNAAAAAANNTAAAAANNNCCCCCCCCC
CCCCCTTTTTTTTTTTTTTTTACACCCCC

Sequence 1425

CCGGNCAGGTNCACTTGAAACCAANTTCTAAACTNGTTTTCTTAAAAATAGTTGT
GNAACATTAAACCATAACCTAATCAGTGNGTNCCTATGCTTCCACACTTAGCNCAGACC
NTTCTCACNACATNTTACTTGGGGTTTTTTTTTCCCCNAAAAATTTAAAAAGGG
GNTTTTTTTTTTTNCCCNNTTTTTTTTTTNCCTCCAAAAAANANGGGGNN
TTGGGGGGGGNTTCCCCNAAAAACCCNTTTTTTTTTTNGGGGGGGGGGNAAAAA
NCCCCCTTAAAAAATGGGGGGGTNTAAAAAACCCTTAAANAAAAGGG
GGGNGCCCCNAAAAAANCNNNTTTTTTGGGGGGGNCNGGNTTNCCTT
CCCCCTTTTTTTTTTTTTTGGGGGGGGGGGGGGGTTTTTAAAAAAGGG
GGGGGNGNTGGANAAAAACCCCTTTTTTNNNTTTTTTTNNGGNTTGGGGGNT
TTTTTTTTTGGNGNTGTGNAGTNTTCCCCCTTTTTTCTCTTTTTTTANAG
ACCCCCCCCCNTT

Sequence 1426

Sequence 1427

Sequence 1428

Sequence 1429

Sequence 1430

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Sequence 1431

Sequence 1432

Sequence 1433

Sequence 1434

Sequence 1435

Sequence 1436

Sequence 1437

Sequence 1438

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Table 1

nnnnnnnnnnnnnnTCTTGCAgTTTACTACTGTCAAGCAAgTATAATAACTGGCCCCCGTA
CCTnn
nnGAGGG
TTTAATTGCgCGCTTGGGCCGTAATCATGGGTcATAAGCCTGTTTTCTGTGTGAAAAATT
GTTATCCC

Sequence 1439

[illegible]

Sequence 1440

TATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACAAACTGTT
CAATCTTCTCAAAGTGATGGACTCGGAAGATGCCACGGGTGTACAGGCCATGGGAGCCCA
CCTCCTGACGGAAGCAGGTAGACAGGCCAGCATACTTGATGGGCAGGTCTCTC

Sequence 1441

CTATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACGC
GGGGATCCAGAATACATTTCCAACAAGAGCACTGGCCAAGTCAGCTTCTTCTGGAGAGTC
TCTAGAAGACATGATGTCACTACCTCAGCTTTGGGTCTCTGCCTCTTACTCGTCAAGTTTCT
TCCAACCTTGGCCATTGCAATAAAAAAGGAAAAGAGGCCTCCTCAGACACTCTCAAGAGGA
TGGGGAGATGACATCACTTGGGTACCT

Sequence 1442

TCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTGTTTGT
TTTTTTTTTTTTCACCTTAAGGGAGGATTTAATTTGCTCCCAACTGATTGCACTTAAAT
GAAAATTTAAAAATGAATAAAAAGACATACTTCTCAGCTGCAATATTATGGAGAATTGG
GGCACCCACAGGAATGAAGAGAGAAAGCAGCTCCCTAACTTCAAACCATTTTGGTACCT
GCCCG

Sequence 1443

ATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTGT
TTGTTTTTTTTTTTACCTTAAGGGAGGATTTAATTTGCTCCCAACTGATTGCACTTAA
ATGAAAATTTAAAAATGAATAAAAAGACATACTTCTCAGCTGCAAAATTATTGGAGAATT
GGGGCACCCACAGGAATGAAGAGAGAAAGCAGCTCCCTAACTTCAAAACCATTTTGGTAC
CTGCCCG

Sequence 1444

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAGCAGAAACCTGGCCA
GGCTCCCAGGCTCCTCATCTATGGTGCATCCACCAGGGCCACTGNA

Sequence 1445

ATAATTGCGCGCTTGGCNGTAATNCATGGTCATAGCTTGTTTTCTGTGTTGAAAATTGT
TANTTACGCTCACTAATTTCCAACACAAANCAATTACTGNAGCNCGGGGNAGTCATTAAT
AGTTGGTTAAAAAGNCTCTGNGNGGNTGNCNCTTAAATGGAAGNTGCAGGCCTTAAACN
TCAACCATTTTANATTTGGCNGTTTTGACTGCNTTTCAANTNGTCCTCGACNTTTTTTCC
CAAGNTNCCGCGGNAAAAAACCATTGGTTCCCNNTGNCNCCAGTCTTGGTCAATTTTAT
ANTGNAAAAATCNGGGNCCCAAACTGACNGTCCGTGNGGGGAAGGAAGGGNTCGGGGT
NTTTGGCCGGTNTATTTNGGGGGGCCNGCCTTACTTTTTCCCGGNCCTTNNCTCCTTCGGN
NTTCCAACCTGG

Sequence 1446

Table 1

AGGCCACACAACAAGTAGGTGATGGAGAGTGTTGGCGGTACCTGCCCCG

Sequence 1455

CCGCGGTGGCGGCGGAGGTACCANNGACCTCTAACTCCCCCTGACACAGAGCAATTAGAC
TCCCATACAATGGTATCAATTATACCACTCCATTGGAGGGACTTCCTTTATGTGTCACC
CAGGATACATTGCTCAACTGCAGTTGCCTTGCANTTTGATCCCAAGCATGGNTGAGTTAC
CATAAAAAAATTATGTACCT

Sequence 1456

CCGGGCAGGTACNAGACAGAGTCACCATCACTTGCCGGTCAAGTCAGACGATATCTATGC
ACAGTCTGCGAGCTGAAAACGGACCCTCACTTTTGCCGGGGGACCAAGCTGAAGATCAA
CNCGNAACCTGTNGTGCTGCNCCAATCTGGTTCTTTAATCATTCCCCGCCANTCTTGAT
GNAGNCACGNTATGAAAAATCCTGGGAACTGGCCCTACTGGTTTGTGTTGNCCATGTC
TTGAAATTAACCTTTCTTATCCCCAANNAAGNAGNGCCTCANAANGNATNNCGCNTTC
TGTGTCACCGNCTTTCTTATGGAAAACCTTAATGTTNGTGTANTACNCCCCCACTGTG
GGTCCTTNGTCNAATGNGGTAAAATTTTCC

Sequence 1457

CGGGCAGGTACTTCCTGTGGAACCTCCCTGGAGATGAAGCCATGTTCTGTCCTGGCGCTCTT
CGTGCTTGCCGTGCACCTCAATCACGTTTCCAGAACCTTGACTTTGAGTTCTCTGGAG
AGAAGTGCTTACCGTCCAGNTTCACAGGAGAACCCTGTNCTTTTCCATACGCATNTTCT
GAATAGCCCAGTGTTCAATTCCAACCTAGGGTGCCCCNC

Sequence 1458

CCGCGGTGGCGGCGCCCGGGCAGGTACAGATGTCACCGGCAGCATAGATATCAGGAAGG
GATGTGTGCATATGATCATCCACTTTTCAAGGCCACCATCTTCCCCTAGATCAAACTGTTA
CCATGGAGAAAAGGTTCTACATTTGGTGTAACTCCTGTANCACTGACAATGAAAGCGCAG
CCATATATCTTTTCAATTGGTCAATCCACATAGACAGGCCACATCTCTGTATCGGCTGTA
ACTGACTTATGGTCTCTTGGAAAAGTGAAGGACTTTTCTTCAAAATCTAAACTCATCC
TGAAGGTAGATTTTCTTACTTCACACATAGTTTCAAGGTGAATCTTATGAGAAAACCTCT
TTTGTTCCTTTAAGATTCAAGCCTTCATGCCAAATCTTGG

Sequence 1459

TCGAGGCCGAGGTCTTGCGGATCTGGCGGACCTGCTGGTGCTGCGCATAGGATGTCTTTC
TAATCTGGTTGTTACGTTTCTTAGTGAAACCAACACAGAAAAGTCGGAGCAAAATA

Sequence 1460

CCGGGCAGGTACATAAAATGGCAAGAGTGCATCCTTTAAAGCTTGACATGAGAGACTTG
GAAACAATCTTATTAGAATTGTGAAAATTCTAAGTAGTCAAAAAAATAAAAAAATAA
AAAAGAAAGTCAAGTACGTGCCAAGCATNCTNGTGCGACCGGAGAGCCCCGGGAGCGGG
GGCTTGC

Sequence 1461

TAGGGCGNTTTGGAGCTCCCCGCGGTGGCGGCGGAGGTACTATGAATGTAATTCATAATT
TAAAGGAAAACTAAAACTATTTTGATTTGGGAAAATGAGCCTTAATTTGTTAAACCTA
TACACTGAGAACTAGCCTCAGGCTTAATATTCTCATTGCATTTGCAAGATCTGAGCAAAT
AAGATTAAGTAAACAAATCAATTGTATATATAATTGACCTTTTGTGGAACATGTAGTT
TATAGAAAGTATACTCTAAAGGGAATTTGCCGAAGACCTTTTACTGATTGAACAGTTGTG
CTACAATCAACTTTTCATAGTACCTCGGCCCGCTCTAGAACTAGTGGATCCCCCGGGC
TGCAGGAATTCCGATATCAAGCTTTATCGATACCGGTGACCTCGAGG

Sequence 1462

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCGCCCGGGCAGGTACTCGGATTTTG
AATTCGTGATTTTGGTTTGGTATAAACGGTAAAGTGTGTGTGCCCTCTTTACCTGTTT
TTTGTCTTGTGGTATGTGTGGTGTGAGCGTGGTATTTTGTCTGGAAAAAAGAAAAA
AAAAGTA

Sequence 1463

Table 1

Sequence 1464

Sequence 1465

Sequence 1466

Sequence 1467

Sequence 1468

Sequence 1469

Sequence 1470

Sequence 1471

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Table 1

TTTTATTGCTCTTTTGGATAGAAACGGGAATTTATTTGCCAGGAAGGATGATCCCATCAT
ACTTCTGCTGGAACCAGCGCATGGCCTCCTCTTTGCTGATTCTGTGTTGGCCCCAATGC
AGCCTGTCTGCGCTTCTTGTCTGCGATGCTGAAACCTGGCCTACCCAGCACCACATNNN
AAGTCCAGGGCCGTTAGATACCAATGCTT

Sequence 1472

CGGGCAGGTACTTACAAANTGCCCCATTCTNTTCATCTGAAAATGTCCCCGAGCCTTTTG
GAAACAGGNGCAGGGCATNCANANTNTTCCANTTTTTATNGAACTTGANGNACGGTTNC
AACNANAANNNNCTTAATTTCTACANACATCTTNTTGGGTNATTTGTTACCGAAGNTCC
TCCTTATTTGAGACCCACCTAGACACCGACCTTGNANATTGGAACAAGTAAGCCCCCTNT
NCNTTCNTACAATTGNAATGGTANCGTGGGAAGAAAGCCTTGGTTNGAATTTTANAACC
CCCTGANTTNATNGTTGNCCCATGNNACCCAGGGGAACCAATTGGGTTTTTTTANAATA
AAA

Sequence 1473

AATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGCAACCTCTTGGTCAAACATGGCATG
CCACCATCTTTTTCAAAGCCCCAATATTGAAGGTGCCCCAGGGGCTCCTATTGGAAATACC
TTCCAGCATGTGCAGTCTTTGCCAAAAAAAAAAAAAAAAAAGTACCTGCCCGGGCGGC

Sequence 1474

AGGTGTGACCCACGCGTCCGCAAATAATGTTAATCCACACACCAAAAGGACGAACCTGA
GCCCTAATAATTGTATCCCTAATTATNTAATCGGGCTCAACCAACCTTCTAGGGCTTC
TTCCCATACATTTACCCCTACCACTCANCTATCTATAAACCTAAGCATAGCCATCCCC
TATGAGCAGGAGCCGTAATTCTAGGCTTCCGACACAACTAAAAAATCTTTAGCCCACT
TCTTACCGCAAGGAACCCCATCTCACTAATTCCCATACTAATCATCATCGAACTATTG
AAGCCTATTTATTCAACCGATAGCACTAGCCA

Sequence 1475

AGGTACCGCTTCCCTGAAGAGCTCACCCAGACCTTCATGAGTTGTAACCTCATCAGTGGA
ATGTTCCAGCGAATGGACAACTGAGAAAAAGATGCCTTTGCTAGTGTTATCCTGTTTAG
AAACAACAACAGCAGCTCCATTTCTGGGGTTTGGGTCTTCCGAGGCCAAGATCTTGCCCT
TCTGCTGAGTCCAGATTGGCAGGTGGACTATTGAGTCATATACATGTCGGAACCTGGGAT
CCTGGTAGCCGAGGAGACCTAGACCTCGTTGAGACCTGCCCGGGCCGGCCCCGCCCCCG
CGGGTGGGAGCTCCAGCTTTTTGTTC

Sequence 1476

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTT
TTTTTTTTTTGGGCANCTAAAATNTAGGATGGNGNNAAGCTTCTTCATTTTGNCAATTAT
ATATAAAAAATNACAAACAACATGAATCNGCATTCTTGGATGAGATANNTAATAACAAA
CTATTTCTCAATATTTGTATACTAAAACTAGTAAAGGTGNTATGTGTTTCAGTATCTTA
TCTNTTATTTGAACATGEGTTTCTGAAAGGAGCCTATNTAATAATATAAATGGTATGTAG
TAAANGAGGCNCTGCCTTGGCTGGGACTGCTNTAAAAAATTACCATAGACCATTGACTA
ANCCACAAACNTATACTTCTCACANNTCTGGAA

Sequence 1477

CGGGCAGGTGTACAAGCTAGCTTGAGTCGACTCAAGCTTAGGGATCTAGACCACGAGCGG
CCGCNAAA
nnGCGNAATCATGGTCATAAA
CANACAACATACGAANCCGGAAGCCATAAAGTGTAAGCCTGGGGTG

Sequence 1478

AGGTACTTCAGGGAAATACCACCTCCACAAACGTTGAGCCAATTCAGGGGCTGCCAGTAG
AATCCTAAAGAGTGATGTCTCCGGTTCATGTGAACACCATCTGCANTCCACACCCCGCTT
TNAGGGACAAATTTNANNGCCATTAAGNGNNAAGAACCATTGCTTCAAGCCAGAAGCTNG
TCCCCCTTTTATCCCANTCCCNAGTTTCACTCACCCCTTTAAGNCCTCTGGAATATG
GGNGACCNAGTGCCGGAATGGGCCTTCAATTAAGNCTCNACGGGTAAANGGGGCNTGGC

Table 1

TCTTNNNCCCNTTCAAGNGGCNTTATNCTCCCNAAAGATANANCNCCNAAANTTCTATANG
GGGGGGGCNAATTTAACCGNCCGNGGCCTTTTCNANNTCCCCAACCAACCNTTTTTTG
NCAANCCTTTTCAATTAATTTTTCCCCCGGTCTAATTGGGCCTTTCCCCCGNCCTTT
TAAAAAATTTGGTTAANCCCCTT

Sequence 1479

AGGTAGTTAATNTTCGGATGTTTCTGAAGCTTGGCTTGAGACCCCCCTCTCCAACACACA
CACACACACACACACACACACACACACACACACACACGACACATTATCCAAGCGGGAC
GCGTGGGTGCACTCAAGCACCTGCCCGG

Sequence 1480

CCGCGGTGGCGGCCGAGGTACTGTGGAGCTGTTGGGACTGGGCAGGCGGCAAAGATCTGC
AACAACATGCTGTTAGCTATTAGTATGATTGGAAGCTGCTGAAGCTATGAATCTTGAATC
AGGTTAGGGCTTGACCCAAAACACTGGCTAAAATCCTAAATATGAGCTCAGGACGGTGT
TGGTCAAGTGACACTTATACTCTGTACCTGCCCGGNATNTTAATGAACCGNTGCATGCA
AATCTNTTTACTTCATNTCTGTACGGGCATACCTAANTNTGTTCTCAGGAAAATGAT
GAGGGGGAGACACTNTCTNAACTTGNNGGGACCNGGTGGATGGACG

Sequence 1481

CCGCGGTGGCGGCCGGGATCGCGGAAAGTGATGGCTGTCGTCCCGGCGTCTCTCTCAGGA
CAGGACGTGGGATCATTTGCATATCTTACAATTAAGACAGAATACCACAGATCTTAAC
AAGGTTATTGATACATTGCATCGACATAAAAGTGAATTTTTTGAGAAACACGGAGAGGAA
GGCGTGGAAGCTGAAAAGAAAGCTATCTCTCTCCTTTCTAAATTACGGAATGAATTGCAA
ACAGATAAAACCATTTATCCCCCTTGGTTGAGAAATTTGTTGACTATGATATGGAATCAG
TACCTCGGCCCGCTCAGAACTAGTGGGATCCCCCGGCCTCGCAGGAATTCGATATCAA
GCCTTATCGCATACCCGCTCGACCTTCGAGGGGGGGGGCCCCGGGTACCCAGCT

Sequence 1482

TACCAGTGGCCCTGGTGGATGCACCATAAATGAGGAGCCTGGGAGCCTGGCCAGGTTTCT
GCTGGTACTGTAAACAACCGGTATTAGAAATTGAGATGTTTTATTTGACTATTTGAGA
GTAAACATTGTAGATAATGTTCCAAACCATCATCAAAAAATGCAGAGCAAACTTTCTGTAT
ATAAACTGTACCTGCCCG

Sequence 1483

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTA CT CATNCCTTGTTTTCTGC
TCATTTCTTNCAGCCTGAGGAACAGACGTCAGAAAAAAAAACAACCCAGACAAC TTC
CCCTTTTAGCTGAGCTGTCTTCTGACCAATCAACAGGGACCAGCCAAAAAAAAAAAAAAAA
AAAAAAAAAGTNCCTGCCCG

Sequence 1484

AGGTACGCAGGCGGCAGCCTCACTCTGAATGGACCAAGGCGCCAGCTCCTTGCCAAAGC
CAAAACCTTTGGGCCCAAAGTTTTTGGCATAGCATCCTTTGCAATAGATCTCACCATCCT
TGCTGCCAGGGTGGTCGACTCGAGGCCTTTGCCACATTTGGCACATCGGAAGCAGGACT
TATGCCAGGACTTCCCGGCACNCGATACACCTTCTCCGCTGCATAGACTGCCTGGCTTGCA
TCGGGGGACAGCGCTCAGAGCCGCCCATCTTCTGAAGCAAACCTGGATGCCATTGGGGT
TGGGTGGGTAGCGGGGACGCGTTGGGTCCG

Sequence 1485

CCGCGGTGGCGGCCGAGGTACGCCCTTCGCAGTTTCTGCCTGATCCTTCCTCCAGCAAGT.
AGGTCACATCAATGGCATTTCCTCAGGGATTTCCTCAAGGAGATTGAGCAAGATCCGGT
TGAGTCGTTCCCGTTGGTTATGCCGTCGTTCTCAGGGGTACCTGCCCG

Sequence 1486

CGGGCAGGTCGACTCCTATAGGGTCTAGATCACGAGCGGCCGGCCGCACTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAANACACACACACACACACAC
ACACACNCNACACACACACACACACACAC

Sequence 1487

CCGCGGTGGCGGCCGAGGTA CTGGGAAAAGGCCACAGGGAGAAGGAAGGCTCCAGCTGAA
CTTTATAGCAATTTGAACTCAACCAGAAGCCTCCTGACCAGAACTCGATGGGAGGGGTGA
AGCTGGCTTGCAGATTCCACAGGTGGGGAAAGAAGGAAGGCTTTATTTGCTTTCAGCTG
GGAGGTGGGTACCTGCCCG

AGGTACAGTGGTTAAATAATTGACTCAATGACAAAAGTGGGATTGGAGTCCCAACAGTGT
GGACATGCTTGCTTTGGATTGAATGTTTGTGCTTGCCCCATATCCCAATGTTACAGCCC
TAACCACCAATGTGATGGTATTGAGATTAGGGCCTTGAGTACCTGCCCCG

[illegible]

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATTTTGTTCACCAAG
TTATCCAAAACACCAGTGAGGAAATCTTTGCCAGGGATTCCAACACCTTAAAGTGGGCT
TTTTTTGTGGGTGGCCTTCTGCCATAGGGAACAGCCTCCGTCTTTTTTACAGCGTTG
GAAAACCCCGCGTACCTGCCCGGGCGGCCGCTCGAATCA

ATACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAATAAGCATATTGC
TTTGGCAATGCATCTCCAGAGCAGGTGACCCTGGCCGTCTGTCTGGGGACACTGACACC
GAGGGTGGCTGTGCCAGTTCATAGGAGGCCCTCAGAGAGCTTGCAGAGAGTGGAGGAGGGG
AGAAGTAGAGGGATCCAGGCCATGTTGAGACCCAGAGTCTGCCTCTGGACCCACCC
CCGCGTACGTGCCAAGCATCCTCGTGCGACCCGCGAGAGCCCGGGGAGCGGGGGCTTGC

CGCAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGAGCTGGAGACGGCCTGG
GTGCTGGCGAAGCGGAGGCCGGANTAAGAAAGACTGTTAGAAATGCCCTCGGGTAACAC
AGAAGGCTTGAGAGATCCTGACATAAATCCTTGTGTCGGAATCTGATGCTTCCACCAG
ATGCTGGATGAAAATAACTATGACAGGGAAAGTGTTCCACTTACTTCTGAGGTACCT
GCCCG

ACTACTTAGGGCGAAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTCTTCACCTTGGG
CCACCCACCGTGATTTCTGTCTCGGATTCCCTGAGCCAAATACCCATGATGGGATGGTTC
AGTGATGTGGATGGATGGCTATTTGTGTAAGGGCCGAAAAC TAGTTTTCTAAGATGGGAG
AGCTGGGCAGTTACTTATACTCTGAAGCCCTTCTCTTTCTCTGCTGGGGCTTTCCACGCA
GTTCCAAATAGTTCCTTGATTTTCAGATAAGTCATCATGATTGTTAGGAAAAAAGAAAA
AAGAAAGTTAGTTTTTACGCTCCTGACTTCTTAAGTCAAGTGAGACTTTTAAATTTAGT
AAATAATAGCTCATTATTTTATGGTAGCTATTTGATTATT;TAATTCCTTAGCAGCACT
GAAGAAATTCAGAGAAGTTCAATAGAGAGTAAT

CTNCTATAGGGCGAAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAGTGTAAAG
AAGGCCATCTACAATCAAGATTGAGAGTGGCTCTAACAAGTGCCATTTTTCCTTGTTAGC
TTTCATTTCTCAGCCCTTTACAAGATTAATAATAGTCTGCAGTTTAATCTCTCCAAAGCTT
TACGGAACAGTGATTCTGCTCTAAACAAGACAGTACTCCAGGATTTCTGAAGACTATTGT
GGAAGAAGCATCCATTAAGGCCAAGCTATAACATCAGAAATGGTGAATGAA

GAGCACGAGCTGTGAGGGGATTCACTTGTGTGCGGAACCTCTCGGAACCATGGCGTCCCT
TTCCCTTGCACCTGTTAACATCTTTAAGGCAGGAGCTGATGAAGAGAGAGCAGAGACAGC
TCGTCTGACTTTCTTTTATTGGGTGCCATCGCCATTGGAGACTTGGTAAAGAAGCACCT
TGGGACCCAAAGGCATGGACAAATTCTTCTAAGCAGTGGACGAGATGCCTCTCTTATGG
TATCGACGCGGCCCGCCGGGCAGGTACCCTTAACTGGCAGGACATTTTTGAAATCACAAA
TTTGACATATAAAGAACTGACGAAACAGCCATTATCCATATACGCAATCAAATAAGGAA
CTTATGACCTAAAGCAATGGTAAACTTTCTTGAACCT

NAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCTGTGGTGATGCAGTCAAA
GCCCAGGACAGTCGTATAAAGGAAAGCAAGACCCATGCCAGCCAGAAACACAGGCTGGTT
GTAGTAGGAGACCCATCCATCTCGGAAGGTACCTGCCCG

[illegible][illegible]

CTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGCCGCCCGGGCAGGTACATTACAGGACAA
GGATGGCGCTCCAGTGGCCACCAATGCCTTCCATAGTCCCCGCTGGGGTGGCATTATGGT
ATATAATGTTGACTCCAAAACCTATAATGCCTCAGTGCTGCCAGTGAGAGTCGAGGTGGA
CATGGTGCGAGCGATGGAGGTGTTCTTGGCACANGTTGCGGTTGCTCTTTGGGATTGCTC
AAGCCCCAGCTGCCTCCAAAATGCCTGCTTTCAGGGGCCCTACGAAGTTGAAGGGGGCTAAT
GACCTGGGAGTAGACCCGGTGCTCTGGGCTCGGTCAAGTGGGAGAACCTGGCCACAGCC
ACACCACCCTTACCTCCCTGGCGCAGGCTCCGGGGCAAGATCAGAACACATTGTGCATT
AAGGACGACGTGGCATCTGAGGTGTACCTCGGCCGCTCTAGAAGTAC

NCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTCCGAGATGGATGGG
TCTCCTACTACAACCAGCCTGTGTTTCTGGCTGGCATGGGTCTTGCTTTCCCTTTATATGA
CTGTCTGGGCCCTTGACTGCATCACCACAGGGTACATCTTTCAATTCTGGAATATCTGTG
TCTAAGCACAATATCTTCACACTGTGCTGTATTGCTGCTGAACTAAATGCACTTTTCCCC
ACATATGGGGCATCTGGCTTCAAACAAGTTCAGTTCAGTATCATTACTTTTAATCTCATCTT
TCCTTTCTGGTAGTTGTTAATCAGATTGAAAAAGGGCACATTGCATAGAAGCCATT
GGGGAGTTCAGTGAAGTTCTGTAAGAATGTGCATGTCTGCCCCG

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAGCAGAAACCTGGCCAG
GCTCCAGGCTCCTCATCTATGGTGCATCCACCAGGGCCACTGGTA

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGATGGGGGTCTCACTACAT
TGCCCAAGCTGTGCCAGAATTCCTGGATGCAAGCAATCCTTCTGCTTTGGCCTCCCAAAG
TGCTGGGATTACAAGCATGAGCCACCATGCCAGACAAAGCCCTCAATTTCTTACATATC
GATTTAAGGGCCTGAATAAACCAACACATATAAAAGGAAAAAGATAATTACATACCAA
GCCGTGAGTAAATTCAGACTGAGATGATATAATCGGTACCTGCCCG

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Table 1

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTGTTGTTTTTTTTTT
TCACCTTAAGGGAGGATTTAATTTGCTCCCACTGATCGTCACTTAAATGAAAATTTAAA
AATGAATAAAAAAGACATACTTCTCAGCTGCAGATATTATGGAGAATTGGGGCACCCACAG
GAATGAAGAGAGAAAGCAGCTCCCTACTTCAAAACCATTTTGGGTACCTGCCCCG
Sequence 1512
GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGCGGGCAGGTACTCCTCTTCACTATGA
AAGTGTGCATGAGTCCCAAGCATCGGATGTCAAACAAGAAGCAAATCACCTGCAAGGATC
GGATGGGCAGCANTCTGTCAAGGAAAGCAAAAAAAAAAAAAAAAAAAAAAGTTCCCT
Sequence 1513
AATTGGAGCTCCCCGCGGTGGCGGTGAGGTACATCATTTCAGAGCAGGCACTGGCAGC
GAGATAGGGTTGGAGGAGAAGTAGCGCCGGGACTTCCGGATGGCAAACCTTCTGTGGGT
AGAGATTTCCCAGCAATCTTGAGCTTCAGGCCTGGCACAGCTCGAAATAATTCCACTTCG
TCGTCCCCGAACGGCTTGTGGTCCTCTTCCCAACATGCTGAGGTAGGCGGCCTTCATG
TAAATGTAGGTGGCCTTTTAAATCAGATCATGTCAGTTCCTTCTGGAAATCTGGTTATA
TTCCATCACACTCAGGAGACATCTCTACAATTCCTTGACACCTGCAGCACTCCAGCCA
CACGACGGCCCCCGGTACCTGCCCCG
Sequence 1514
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCGGGGATTCTTNAGAG
GTCAGCCAAGTCGGTAACATTCTGTGAAGCAGATTAAATACAGTAAATCAAACAACGG
AGGTCTTTGGAAGTGATGCTGGGCCCANGCAGTGAAAATCAAGAAAAGAGGAGAAAGACC
AAGACCTGNATGTCTGGACGACCTGACCCAAAAANGGGGCACAAAAGCAGCAGAGCTTC
ACCAGGTGACTGGGGTGGGCTTCTTTGTCTCATTAAATGTACCTTGCCCGGGCGGCC
CGCTCTAAGAACTAAGTG
Sequence 1515
CCGCGGTGGCGGCCGNCNACTCATTACCCGGGGACAGGGAGAGGCTCTTCTGCNTGTA
GTGGNTGTGCACAGCCTCATGCATCACGGAGCATGAGAAGACGTTCCCCTGCTGCCACCT
GCTNTTGTNCACGGTGAGCTTGCTATAGAGGAAGAAGGANCCGTNGGAGTCCAGCACGGG
AGGCCNTGGTTCTTCCGCGTACCTCGGCCGCTCTAGGAACANTGGATCCCCCGGGCTG
CAGGGAATTNGAATATCAAACCTTATCGATACCTTNCGACCTCCNNN
Sequence 1516
ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGNCNCGCCAGGTACAGCCCACANANG
GCTGATNGGCTTTTGTGNTTNTTCTNGGAANATANTGATGAGTTCCTCNAAACNCNTTA
ATTTTACCTCTCCGGGACATCATCCTT
Sequence 1517
CCGCGGTGGCGGCCGAGGTACACTNTTNGTCAGGGGACCAAGCTGGAGATCAAACNAACT
GNGGCTGCACCATCTGNCTTATCTTCCCGCCATCTNANGAGCAGTTGAAANCTGNAACT
GCCTCTGTTGTGTGCCTGCTGAATAACTATCTATCCCAAAAAGGCCNAAGTACCTGCCCCG
GGCGGGCGGCTCTATANCTANTGGATC
Sequence 1518
CCGCGGTGGCGGCCGAGGTACGCGGGGGGAGGAACTGCTCAGTTAGGACCCAGACGGAAC
CATGGAAGCCCCAGCGCAGCTTCTCTCCTCCTGCTACTCTGGCTCCAGATACCACTGG
AGAAATAGTGATGACG
Sequence 1519
CCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGCGGGCAGGTACCTCTGGAG
AAAATAAGTGTGTTAGATAAGACTTGTTCATGCATGAGTGATAGTGTGTTAGTGTGAAT
TCAATGTTAATGAATCAATAAAATATATGAAATAAAGTGCTTTAAACAGTAACACAAGG
TTGTATGTTCTCAGTTGACAAAAACATTGTGACCAGAGGCTCACAGGAGTCTTAAGTCTG
CATTTCCCAGGAGCAATGGCTTAGCATTTACTAATCGAGTATTCCTGGCAACTTTATAG
AACATAACTACTGTAAATAATGAGAATCAACTGGATATTATAAATCCCCAAATATATATT

Table 1

[illegible]

Table 1

AAAAAGGCCAGCAAAAAGGGCCAGGAACCCGTA

Sequence 1527

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TTCAGAAATTCAGAAATGCAGCTTTTGAGGGAGGTGAGCATCATTGGTCTCAGCTACCAT
TTTCTGCAGGATGTTNATAAATAGTTCTGGCAAAGGAGGTTGCGTATAGGGTCCTACA
AG

Sequence 1528

CCGCGGTGGCGGCCCGCCGGGCAGGTACCAAAATGTTTTGAAGTTAGGGAGCTGCTTT
CTCTCTTCATTCTGTGGGTGCCCAATTCTCCATAATTTGCAGCTGAGAAGTATGTC
TTTTTATTCATTTTTAAATTTTCATTTAAGTGACAATCAGTTGGGACAAATTAATCCTC
CCTTAAGGTGAAAAAAAAAAAAACAAACAAAAAAGTACCT

Sequence 1529

[illegible]

Sequence 1530

CTACTATAGGGCGAATTGGAGCTCACCGCGGTGGGCGGCCCGACATCGCCGCCGAGGGAT
CGTTGGCAAGCCCGGGTGGGAGCGTGGCTGTGTTCTCGTCCCTGGCTGACAACGAAGGGG
AGCTAGTCACTTTTCTGCCACGACGACTCGCGTCCGCCTCTCGCCTGGAGTACCTCGGC
GCTCTAGAACIAGT

Sequence 1531

[illegible]

Sequence 1532

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTATCTTTTTT
TTTTTGGAGATGGAGTCTTGTTTTGTCGCCCAGGCTCTGGAGTGCAGTGGCGCTCACTGC
AACCTCTGCCTCCCGGGTTCAGGTTATTCCTCTGCCTCGGCCA/CCTAGTAGCTGGGATT
ATAGGCTTGAGCCACTTGCGCCCGGCCAATTTTTATTTTTTAATGGTGTATGGAAGT
AATGTATCCCTCTAAAATTCAATATTTGAATCTCTAATCCCCAAAGTGATGACACTAGGA
AGTAAAGCCCTTTGGGAGGAATTAGGTTTANATGAGGACATGAGGATGGGATCCTCATGG
TGAATTAGTACTCTGCCCGGGCGNCGCTTANAAGTCTGATCCCCCGGGCTGCAGG
GAATTCNATATCAANGCTTTATCGATACNCGTTTCGACCTTCAAGGGGGGG

Sequence 1533

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTCTTCCTACTGNGAATNGTTC
TTGACTCCTTTNTTGACATTNAGTTTTCANAAATTTNCATCTTTTTNTGGAACATAANGT
GCTGTTCTCTTGACTGCCTGNTGGGCCANCATCCGATTGCCANGNCCANAAACGTAAANN
CTTGNCANATGGCCAAGNTACCTNGGC

Sequence 1534

GAGCTCCACCGCGGNGGCGGNTCGTGGCACTCATTACCCGGAGGCAGGGAGAGGCTCTT

Table 1

CTGCGTGTAAAGTGGTTGTGCAGAGCCTCATGCATCACGGAGCATGAGAAGACGTTCCCT
GCTGCCACCTGCTCTTGTCACGGTGAGCTTGCTGTAAAGGAAGAANGANCCGTNNNGGA
NTTNCAANCACCGGGGAAGGGCGTTGGGTCTTGTTAGATTGAATNCTCCCGGCGTGCCNC
ATTTGGCTTCTTCCCCACCTCCCACCGTGCGNATGGTCCTCNTGGGGAATAAGAAAGNNC
CTTNTGGACNCAAGAGCCAAGGGTCAANGGCCNTGAACCCCATGGGCTTTTCTTTGGGT
TCCAAGTCCTTCAANTCCNCCNNGGGGGGAATNGNGGGNGNGGCTAGGGNGGNTTGGTTAC
CTCCTTCCGNGTCTCCGGCCTTTNTNAGGGAAAACCTTANGGTNTGGGGGNATTCCNC
CCNNCCCCGGNGNACTTTTGGNCCAGTGGGAANAATTTCCNAAATTATTTNCAAAAAGGC
CTTTTAATCCGAAATANCCCCGGTTCGGNAANNCTTTTGTAGNGGGGGGGG

Sequence 1535

TCATACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGGGGTTGGGGAG
AACCCGTTTTGATACAAGCAGATAATTATCTCAGTGAGATGGGGGTAGTTCAAGGAAG
TAAGGAGGGGGGAGGATGTGAGGAAGTTAGAACAACCAATGCTTATTTGATGGGCTGAA
TAACTATTCCAGGACTGAACTATTTTGTAGCACTGTGAGGTGGCACAGTAATTACCTGC
TTCAAAATCAACTGATACCAACATTTTATCTTTGTATCTTATCTGTACCTGCCCC

Sequence 1536

CGACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGAAGTT
GATGCCGAGCGCAGATCGCCTGCAGCTTGCTAGCTGTGTGGGCTGGGAGGTCTGGTAGGG
CTGAGCTTGCAAGAGGATCAACATGCCTTTGGCTAGAGATTTACTACATCCGTCCTTGGA
AGAGGAAAAGAAAAACATAAAAAAGAAACGCCTAGTACCTGCCCC

Sequence 1537

ATCTTTTAACTAAANGTAATNGTCACCATAATCTTATAGACAAAGCATTGAGGTTTATTG
AACTAATGCTGAAGGTAGTAAGTGGAGGAGCCAGGATGAGGTCAGAATCTGAGATTNTAA
CCATGCCTATGCTGTCACTTCTTACACTNTAAATACCTCCATGCTCNTGTGGACACCTA
NGAACAANTGAATATTTCTATTCTTGTCGAGAAATNTCAAACATTAAACATGTTANACT
GTATTTTNGNTTACCATAANCTTTCCAGGAGGAACAAGCACTAAACACAGTCTCTGGCT
TAGGATTTGGATGAACATATTCAAAAGCCATCTGCTTCCAGCAATCATAATCATACCTT
TTGCTTTTGGCCACTATCACCAAGATCTCCANTAGTACCTCGGCCGCTCTACAACATGTG
GATCC

Sequence 1538

CCGCGGTGGCGGCCGAGGTACCTATGATAATCATGATGGAGATCTGGGGAGGGGAGAAC
GTGGAAATGTCTTCCGGGTGTGGCAGTGTGGGGGCCAGCTGGAGATCATCCCTGCTCT
GTCGTAGGCCACGTGTTCCGGACCAAGAGCCCCACACCTTCCCCAAGGGCACTAGTGTC
ATTGCTCGCAATCAANTGCGCCTGGCAAAGGTCTGGATGGACAGCTACAAGAAGATTTTC
TATAGGANAAATCTGCAGGCAGCAAAGATGGCCCAAGAGAAATCCTTCGGTGACATTTAN
GAACGACTGCANCTGAGGGAACAACCTGCACTGTCACAACCTTTCTGTTACCTGCCCC

Sequence 1539

CGAGGTACGCGGGGCAGGTGATGTTTGTTCACGATGGTCTTCAGATGCCACGTGGGC
ACTGCTGAGAAAGCCACTTGGTAAACTGATGCCGGAATGGGGCTTTTTGGGATCCCTG
CTCAGCTGCTTCTGAGTCCCAGCATGCCCTGGTTACCTATGGCCCTCTTCCCATGGGAC
CTGACCTATGATCGGCCCCGCTCCTAGGCGTGGTGACCAAGATGAAGATGCAGAGGACC
ATTGTCATCCGCCGAGACTATCTGCACTACATCCGCAAGTACCTGCCCC

Sequence 1540

GGCCGCCCCGNGCAGGTACAGCATCNCTGGTGGTTTCAAAGAACGTAGTCATTCTTCTCAC
TGCAACANTGTANGATAAGCANGGNAGATCTGTTATTTCCAAATTAAGGTGATTAANAT
ATATGGAGAGAGANCATGGCATGTGAGGTTTATAGGGCTAGANACTGNACANCCATGTAC
AACCCANATT

Sequence 1541

TTAACTGGACAGGTCAATTATCTGAGCTGTGTAAATCATTGTCTGGCACTACAGTTGAAT

Table 1

CACCTTGACACTGAGCTCAGGAGCAGCCCATTAAAGAAGCATCTTGTAATAACAAAGTG
ACACCTTCGAGATTACAGTTGCAGCTATGCAAGTCATTCACAGAGTAGCTGAGGGCTCTC
TTCTGAAGGAGGACCCATTACATGAAGGTAGACCTTTCATGTCTTGTGTCGACGTCCAA
GTCTCTTGCGGTCCAGAAATGCCAGGATGGTTGTTCAAATGCATTGGGTATGAAGTGCA
CCTTGAATCTGCCCTTCCCTTTTCGATTAAACCTTTTCACATAGCTGCTGCTGCTCCT

Sequence 1542

CCGGGCAGGTACGCGGGGAGACCAAGGGCTAAAGCTGGGAGGTGAGTCTGTACACCTTGA
GCCGGGCGAGCGCTGTGGGCCAAGCAGGGGTTGCAGGGCAGTAGGAGTGCAGACTGAAAA
AATGCAGACCGCCGGGGCATTATTTCATTCTCCAGCTCTGATCCGCTGTTGTACCT

Sequence 1543

CCGCGGTGGCGGCCGAGGTACAGAAGGGCCATGCTGTTATTACTCTTACACAAGGAGGCA
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CATGTTTCTGGAATTCAAGCCAGGAAGAAGCAGCAATCTGTCTTCTGGATTAAACTGAA
GATCAACCTACTTTCAACTTACTAAGAAAGGGGATCATGGACATTGAAGCATATCTTGAA
AGAATTGGCTATAAGAAGTCTAGGAACAAATTGGACTTGGAAACATTAACTGACATCTT
CAACACCAGATCCGAGCTGTTCCCTTTGAGAACCTTAACATCCATTGTGGGGATGCCATG
GACTTAGGCTTAGAGGCCATTTTGTATCAAGTTGTGAGAAGAAATCGGGGTGGATGGTGT
CTCCAGGTCAAATCATCTTTCGGTACCTGCC

Sequence 1544

ATACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCACGCTGGTTTGCATCTTC
AGGAGACGCTCGTAGCCCTCGCGCTTCTCCTCGGCCAATTCGCGGAAGAAGTGGCTCAGC
CCTTCAGAGCCACATCATCGCGGTCAAATAGAAGCCCAGAGAGAGGTAGGTGTAGGAG
GCCTGCAGGTACCAGCTGCCATCTGTCAAGTTAACTTCAGAACACACATACCATAGGGAT
GAAGATAAGAAAGGAATGATTGTGACTCTGGATCAAAATGCTNCCAGTTCTGAAGGTGC
ATGATTTAACTGTGA

Sequence 1545

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCACCTAACACATTATTA
TGTTTATTAACCTTGAGACCCAGAAATAAATCTTTTCTTTCTTGATTCTTGCTCTTAA
AAATACAAAAAATGTTTTGTTTGTGTTATTTTGGTTTATTGTTTATTGGGGGGCTT
TTTTAATTGTCAGGATTATGATCTTGCTGTTTTCTTCAATATGTATACAAGGTGATGT
GAAAAGATGACTTTGGGCAGAGGAGTAAGAACAAAGTAGGCTTGNCTTCTACTTTGCT
TCAGAACTCAGTTTAAATGCCAAAAGCCGGGAGAATCAAAGCCCATGTTTGACCGTTCTC
GTTGCTNCACCTGCATTTTCCCAGGAGAGTGTGACNACTCATGCNAGTCCCCTGAGAAA
AAATAAAATTNAGGGACCACTTTCTCCTTTTATGCTTTTTTAAAAAATTTCAAAAA
AACGTTTTAGTCNCAAAGGGGGAACTTTTTTTATGCCTATTACAGGGAAAAGGGT

Sequence 1546

NCCGCGGTGGCGGCCGCCGGGCAGGTAAGTCTTCTATAAGAACGTGGTCTGTATATTA
TTGAGCTTTGGTTCCGCTTTGTTAATGGATTTTCTGGGCAGATTTTATTGAACGTTGGT
GCATCGGCCTGTACCT

Sequence 1547

CACCTCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACCTCATTGAGG
ATCTAATGGACCCCTATCTTCAGCATGGGGAACAGGGTATAATGTTACACCTTGAAGG
CATGTTACTACCAGATTCAGCGTGAGAAGCTTAAGTAGGCTGCATAACAGCTTTGAAAAC
TGGATTATCTACTACAGAGTGTTATAACACCATCTGGAGTCTTCTGTAGTNGGCAAA-A
AAGAACAAGTGTTGAAATTTGGAAGGGGACTTTGTGTTATTTNAGGTTGTTAGAATGAGC
CTTACCAATAATAAGAAGCCCTTGAGCCCAGAAAAAGGACTGTTTAGTTAAAGGGAGG
ATTGAAAGGNAGNGTAAAAAATCNATTAGACCAGTTNTTGGCCGCTCTAGAACTAGG
TGGGATCCCCCGGGCCTGCAGGGAATTCGATNTCCAAGCTTATTCGATTCCGNTCTGAC
CTNCNAGGGGGGGGGGCC

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Table 1

CAATTTCCACACAAACATTACCGAGCCGGGAGCATTAAA

Sequence 1555

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGCTGAAAAGTGCG
 CCCTACGAAAGGACGGTCGACTCCGGCGGGGCCAGGTGCCAATGGGTCATGTTTGGTTA
 GAAGGTGACAATCTACAGAATTCTACAGATTCCAGGTGCTATGGACCTATTCCATATGGA
 CTAATAAGAGGACGAATCTTCTTTAAGATTTTGGCTTCTGAGTGATTTTGGGATTTTAC
 GTGCCAGCCCTAATGGCCACAGATTTTCTGATGATTAGTAAGCATTATTCTTTTGACTT
 GATTATTTGTCTCCTTTTCATGTGAATTTTATTACTTCCCGTTTTAAACCCGTGGTACCC
 TTGCCCCGGGGCGGGNCCGCTTCTANGAAGTTAGGTGGGAATCCCCCCCCCGGGGCGCTGC
 CAANNGAAATTTTNGNATTATTCCAAAGGNCTTTTATTNCGAATTANCCCCGNTCCTNA
 ANCCCTTCTGAAAGGGGGGGGGG

Sequence 1556

CCGCGGTGGCGGCCGAGGTACTTTTTGTTGTTTTTTTTTTTTCACCTTAAGGGAGGATT
 TAATTTGCTCCCACTGATTGTCACTTAAATGAAAATTTAAAAATGAATAAAAAGACATA
 CTCTCAGCTGCAAATATTATGGAGAATTGGGGCACCCACAGGAATGAAGAGAGAAAGCA
 GCTCCCCTAACTTCAAAAACCATTTTGGGTACCTGCCCGGGCGGGCnnnnnnnnnnnnnnnn
 nnn
 nnn
 CGGTAAATCATGGGTATAGGCTGTTTTCTTGTGTGAAAATTGTTTATCCCGCTCACAA
 TTT

Sequence 1557

CCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTCTTTTCAATGTT
 CACAGCTACTTCTCCTTTAAGAGAAGCAGAAAGGCAGTTTTAGGTGTGGTCTGTCTTTAT
 TCCCCGAACCTTGATCAATGTATACAATGCTTACACATTCAAATATGTGCAAGATTCAAC
 AAGGAACACTCTCCACTGCTGTGCTTGAAGTACCTCGGCCCGCTCTAGAACTAGTGnnnn
 nnn
 nnn
 CGCGCTTGGCGTAATCATG
 GGTCATAGCTTGTTCCTGTGTGAAAATTGTTAATCCCGCTTCACAATTTNCACCACAAA
 CATACCGAG

Sequence 1558

CTATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGTCC
 CAGCTCCTGGCTGACTTCTAGTCTTCTGGTTGAAGCTGCGCCTTTAGATGACACGACCT
 ACCCACCCTGTTTCCAGCGGATGCCCGGGCCTGGAGCCACAGAATTCTTCCAGTCCCT
 GGGTGGGGACGGAGAAAGGAACCGTTTCAGATTGAGATGGCCCATGGGCACCACCACGCT
 CGCCTTNAAGTTCCAGCATGGAGTGATTGCAGCAGTGGATTCTCGGGCCTCAGCTGGGTC
 CTACATTANTGCCTTACGGGTGAACAAGGTGATTGAAGATTAACCTTACCTGCTTGGCA
 CCATGTCTGGCCTGTGCAGCAGACTGTTCAAGTACCTGCCCGGGCCGGCCCGCTCTAGAA
 CTAGTGGGATCCCCCGGGCTGCAAGGAATTCGAT

Sequence 1559

CCGCGGTGGCGGCCGAGGTACCCATTCCCTTGATGTCTACAATATCACCTTTCTTATAGA
 TTCGCATATATGTGGCCAAAGGAACAACCTCCATGTTTTCTAAAGGCCTAGAGAACATATA
 TCGGGTGCCTCTCCTCTTTCCCTTTGTGTTCTGTCATTTTGGCGAATTACTGGAAAGATGG
 CGGTTCCCGGGCCCGCTCTAGAACTAAGTGGGATCCCCCGGGCTGCAGnnnnnnnnnnnnnn
 nnn
 nnAGTGAGGGTTAATTGCGCCGCTTGGCGTAAATCATGGTCATTAGCTTGTTCCTGTG
 GTGAAAATTNGTTATCCCGCTTACAAAATCCACACCAACCATACCGAAGCCCGGGGAG
 CATTAAAAGTNGTTAAAAGCCCTGGGGGTGCCC

Sequence 1560

TANGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTCAATGATAAAACCATGTA

[illegible]

AGGTACAAAAAATATTCATATAAACGTTGTTCCACACGTAGGTCCTAGATTACCAGCTTCT
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 TGCCTGGCTTAAACCTCCCTCACGCTCGTCTGTCCACACAAATGTTTAAAGAGTCACT
 TGCAATGTACCTGCCCCGGCGGCCCGCTCTAGAAGTCTAGTGGGGGGGGGGGGGGGGGG
 GGG
 GGG
 GGG
 nnnnGAAATTGTTATCNCGCTCACAATTTCCACACAACATACCGAAGCCGGGGAGCCATA
 A

[illegible]

CCGCGGTGGCGGCCGAGGTACTATTTACAAAGCATGAATTCACCTACAATGCTCAACTGTT
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TAGGATATATTTCCACTTGCTTTTTAAATTAAGTTCCTCACCTCCATTGACACCTCGGT
TTTTNGGTTTTCTCCCTATAGTGTTGGGTGGGTGCTAAGACACCAAGTCTGACCCCCAGA
AATGGGGAGGTTATTTCCNATCCATCTTTTCTCCATCCTTTCCAAAAACCACATATCTAC
ACAAGGGAAAAATTTAATCATCTAGGAATTTTTTTTTTAATTACAAGCTATTTAAAGA
GATGAATGTGGCCAAAGTTTATCA

CTACTTAGGGCGAAT TGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAC TGAGCACATAGC
ACCAGAATATTGGAACAGATGCTTCTCCAAGCCAAGGGTTGCCTTACATTTAGAGTGGG
AAAAGAGGAAAAATGAGTTAGCAGAGGAGCAGCGGGGAGGGGGGTAATTACAGGACATAA
TTTGCTCTAAAAATTTTGTCTCGTGTGTAGTTATAAATTAACTTTTCTATTGTACC
TGCCCGGGGCGGC

[illegible]

CGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACGCGG
GGGTTCCCAGGATGGTGATCCGTGTATATATTGCATCTTCCTCTGGCTCTACAGCGGAA
GAGATGGATCAAGATGGTGAATAGAAGACTCCACCAATCATCCCCCTCACACGAACACC
AATTTAACTATCTACATGCACACACAAAAAGCTTCATCAATTTAACTATCTAC

ATGCACACACACAAAACCTTTGTAAGAACTCAAATCAGATTAGAAGAAACAACAAGAT
GTGCTTGGTTTCCTAGAAGCCAACAAATAGGATTTGAAGAAAAAGATATTGCAGCCAAT
GAAGAGAATCGGAAGTGGATGAGAGAAAATGTACCT

CTATACGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCGTTTTTGTGGTTTTT
TTCTCCCTCAAAGTGAAATGNNAGACTATTGTAGGGTTTTGAGCCAAGGAGTGATATTAT
CTGAATTCTGTTTTAAAGGNTCATINTGGCTCCTGTGTGGAGGCAGGGTAGCTACTTAN
AAACCAAGCCATCTCAGCCTCCCGATTTGTAAGAGATGTGGTCTCACTATGTTGCCCAGA
CTGGTCTTGAACCTCTGGCCTCATGTGATCTCCACCTTGGCCTNCCAAAACTAAAA
TGATAGATATGAGCGCCACACCTGGCCATAAGCTTACGCTTGAGCAGATACITTTCTAA
ACACTTTATATAGGGAAAAAACTAATTCTTTGCGTAGCCCAAGGTGTTCAATTTGCC
GAGAATAACCGTAGCCATANGTGTTTACAATTACGTGGGTGGTAATTT

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAAGGAGAAATAGAACATGT
GCAGGCCAAAAGAAGAAAGGCGCGGGCTGGGTGGGAAGAGGATTCGGA CTCTCACACTGC
AGAGCAGCAGAGCGAGAAAGGATGAGAAGAGGCAGAGAAGGCGACGGCAGAAGAAAAAAG
GAAAAACTGCGGCCCGNGATCANAGCCTGAAAGTGTCCCGCGTACCTnnnnnnnnnnnnnn

GGCGTAATCATGGTTCATTAGCTNTTTCCTGTGTGAAATTGTTTATTCCCGCT

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGGAGCGC
TTTAGGCTGGCCGGCGGCGCTGGGAGGTGGAGTCGTTGCTGTTGCTGTTGTNNAGCCTG
TGCGCGGCTT

CGAGGTACCATCATGGCTTGAGTGCTCTGAAGCCCATCCGGACTACTTCCAAACACCAGC
ACCCAGTGGACAATGCTGGGCTTTTTCTGTATGACTTTTCGTGACTTTCTTCTCTGG
CCCGTGTGGCCACAAGAAGGGGGAGCTCTCAATGGAAGACGTGTGGTCTCTGTCCAAGCA
CGAGTCTTCTGACGTGAAGTGCAGAAGACTAGAGAGACTGTGGCAAGAAGAGCTGAATGA
AGTTGGGCCAGACGCTGCTTCCCTGCGAAGGGTTGTGTGGACCTTCTGCCGCACCAGGCT
CATCCTGTCCATCGTGTGCCTGATGATCACGCAGCTGGCTGGCTTCAGTGGACCACCTTC
CTTTGGAGACTGCTCCATCAGTGCCGAGGTGTGTGGGAACAGGCTTCACTGCACCCGCCAT
CTTACTGAGTTGCTTCACGTGAGGAAAAGGGGGCTTTGGCCCTGTGACTCAGTTCACAT
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ATACAGTGGTGACCCAAGCAATGGATATAAACCTAAAAATCTGANGGAAGGGAGAGGTNG
AATACAGTANTTCTTGAATCTGAAGTCTNCTATTTGATCAAGGTTATTTCTCTG

CGCGGTGGCGGCCGCGCCGGGCAGGTACATGATACATGACCCCAGGTTCCAGTGTAGAACC
TGAGTCCCCCATCCCCAAAGCCATCCCTGCATTGATATGTCTTGACTCTCCTGTCTACT
TTTGCACACACCCCTTAATTTTTAATTGTTTTCTTGTAATACAGTTTTGTACACTTTTG
GTCAGGGGACCAAGCTGGAGATCAAAAGCAACTGTGGCTGCACCATCTGTCTTCATCTTCC
GCCCATCTGATGAGCAGTTGAAATCTGGAAGTGCCTCTGTTGTGTGCCTGCTGAATAACT
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ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGAGTTGCTACGCTGCT_n

TGGCAGTGGCCCTGTTGGATGCATCATA
 GATGAGGAGCCTGGGAGCCTGGCCAGGTTTCTGTTGGTACCTGCCCG

CCCGTTCNACCTCGAGG

[illegible]

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GGCTGGAGGATGAGCTGAATCGTGCAAAATCAACTCTAGAGGCAGAAACCAGGGTGAAC
AGCGCCTGGAGTGTGAGAAACAGCANATTTGAGAATGACCTTGANTCAGTTGGAAGACTC
AATTATTCCC GCAAGGGAGGAAGGCTACTAGGAAGNATAGAATCGGAAAGAGAAAAGAGT
GAGAGAAGAGAGAACAGCTCTTAGGAGTTGAGATCGAAAAGACTCCAAGCTGNGATCCA
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GACCCCGACACCNCANTTTTTGNAAAAACCGAA

TNCATATAGGGCGCAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTT
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 ATAAGTAATGCTA

[illegible]

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 GGTCTATGGTGTCCACTTTGAGTTACCTGACCTTGGACCAATTGGGGCCAATGGCTTGGC
 CAATCCTCGTGATTTCTTGATACCCATTGCCTGGGTATGAGGGATCGCCAAGTTACCTTn
 nnn
 nnnnnnnCNACCTCNAGGGGGGGGGGCCCGGTACCCCAAGCTTTTTTGTTCCTTTTAGTTG
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 TTTCC

GACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGAGCGGCCGCCCGGGCAGGTACC
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GGAGGCCAGCATGAGGTTGGAACAAGAGAATGATGACCTTGCCCATGAACTAGTAACAAG
CAAAATTGCTCTACGGAATGACTTGGATCAGGCAGAAGACAAGGCAGATGTGTTGAATAA
AGAGCTCCTTTTGACCAACAGAGGGCTGGTGGAGACTGAAGAGGAGAAGAGGAAGCAAGA
GGAAGAGACTGCCCAGCTAAAAAGAAGTCTTCAGGAACACGCTAGAGAAGGCAGAATATG
GAAATAAAGAAAGACTACAGCTATCATTGCTTGAGAGTTATAAACAGGATCTTGTTCCGCA
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Table 1

Sequence 1586

[illegible]

Sequence 1587

[illegible]

Sequence 1588

[illegible]

Sequence 1589

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGNCGGGCAGGTACTATCTGTATCA
TTCTGCAAACCTTTTNGGNNAATTNNNNCCCCCTCAACAATTTCTGGGGGATNCTNTT
NCTGGTTAAATACATGTGG

Sequence 1590

AGGTACCTAATGAAACCCGCTCTTTGGCCTGTGGCTGAGACGCCATCTGTAGGCGGTGAAA
TCTTTCCAGCCTATGTGACGAGGGTCATGCCACAGGGTGCGCACCTGAAGGAAAAGGAAA
AGGAAAGGTTGAAACACAGCTCCTTCAGGTGACAGAACAGATGTCCCATGGTGACCAAGG
ACCCCAGCCTCCATTGACTGTAAGAAGATGAACCAAGGCAACAATTAAGATCAACTTTC
AAATCCCTCCCTTGTATAGACTCTCTAAGCCGTTCAAGAAACCTCTGCTTCTCTGAC
ACACGGAAAGAAATGCTGGGGAAGAGGGTGAGTTTGTTTTTCATTAATAAGA

Sequence 1591

[illegible]

Sequence 1592

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTACNTGCNCATCAATGT
ATGATGATGACTATTTGGCTTAAATGGGATACAATATTCGACCACGCTCAAGAACCTTNA

GAAGCTTGACTGAAATTTCTAANACTGATATTTCTTACTGAAATGTGNCCTTTGGGTTTN
AANCTGAGGTTNCTATNGTTTGCTTNCNACAGACATATGTTTGACATACAAAATATGGTA
AAGATCCACTACTTNTGCAGAGGTATATTGGCCATATTATCCCTTATNGGCCTGGATTN
CCTCATCAATAGCACAATTCATTCAA

CCGGGCAGGTACTACAATGAGACAGTTGGATCCATTTTTCCAGGGTTAAGCCTGCAATAC
CTGAAGCTCCAGACCTGAAACCCAGAGCTCCTGCCAGCTGCTATGCCTGTGAACCTGTGG
AAGACCTGAAGTACCT

TCTGTGTGAAATTGTTATTCNGCTCACAAATTCACACAAACATTACCGNAGCCCGGA
GGAGGCAATAAAAGNTGTTAAAAGCTCTGGGGGTGCNCTAATTGAAGTTGAAGCCTAAA
CATCACCATTAAATTTGCCGTTTTNCGACTTACCTTGCCNGCCTTTTTCNCAAGTTC
CCGTNGTAAAAACCCNTNNTTCCGTTGGCCCCAGGGCCNTTGCCAATTTTAAATTT

AGGTACCTCATTACTGCTCCCCATGTGGCCTCCTTACCCAGGAAAATTATGAAAGTCTGA
ACTCAGTCTCTTTNGACACCATCTCAACAGGAGGGGAAGGGGCACCTCATTATTGCCTGG
CAAGGGAGGAAGTCTAGGTTCTCACTCAGTCTTTGCTGGTGACACAGGATTCTTTGGGA
GGCCACTTCACCAGGCTCCACCCATTACAGCCCAGCAGGCCGTGCTTGGTTTGCGCTACTG
GCCTGGATCCCATATCCTGGGTAAATAGGTGAAGGGTGTGTGTGCAGTGGGTGTGAGGT
CTGACCACAGTGACACAGCCNGNCACACAGGCTCTTGCAGTGGGCTGGCGAGGCAGCT
CCAGATGCCAGCACAGATGCCTCCTTCATGTTGAAAGCCNTGCCNGCTGGACTAGGC

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CAAGGTCTCCCCCAGCACTGAGGAGCTCGCCTGCTGNCNTCTTGNCNCNCGGAAGCAGCA
CCAAGTTCACGGCCAACTGCCTTGGCACTANGGTCCAANAATGGCTA

CCGGGCAGGTA CTGGGCGCAGATGGGCGACCGTCACAACACTACGGTCCACTGGACATGT
CTGTTGCTGAGAGAACCCTGGGTGATGCAGGCGTTGCANAAAGCATGTTCAATGAGG
TGCCTGGTAATCGTGAGCTTCTCCTCATACTTGCCCCAGGATGATACAAC TACTCTGGT
CTTGGCAAGGNTGAACCT

CCGGGCAGGTACGCGGGCTACAAGCATAAGGCATCATGCCTGGCTAATTTTTTTACATGT
TTTTTTTTTGTGCGAGATTATGGTATACACTATGTTGCTCTGGCTGATCTCAAATTCCTGA
CCTCAAGTGGATCTTTCNTGNCACA.TNNCTTCTAAAAAGNTGCCANGGGATTANCAT
TGCNATNAATGGCCAACCCAATTGCCCTTAANCCGATAANATGGTATTTTTATCAANTTT
AATTGTTATTCAAATANNTTCTTTATANTNTNTTAANNGTAAGNCCTCACTTNTTAATN
TTNGNATCTTTTTNTGGGCNCCTTAAATAATNATATCNTTCNAAATTAATTAANTA
ATTTCCCTTNTTCGTAANAACCTTTTATTTTTTTTTTCGAATCCAAAAANAATTATNTT
TNGTGGGNGGCTCAATTGGAATTINTATTNTTACGTAAGNTAAAAGGGGGGTGTGGTTT
TTTTTGGAAAAAACCATAATTANTCTTTATAATTAAAAATGG

AGGTACATGTGTAGAAAGCAG1GGGAAGTGTGATTGGATTGGCAACATGTCAGCTTTAT
AGTTGCCGATTAGTGATATGG3TCTGATTCGATCTCTTCCTGATGTAAACCATGCTCAC
CCATATCCCACATACAAATGCAAATGGTTGCCTGGTTCCATTTATGCAAGGGAGCCAGT
ACCTGCCCG

[illegible]

Table 1

TGGATGCACCATAGATGAGGAGCCTGGGAGCCTGGCCAGGTTTCTGCTGGTACCTGCCCCG

0

Sequence 1601

AGGTACGCGGGAGATGAAGGTGCGCATCCTCTCCGAGCGTAAGAAGCCTCTGGACATTGA
CTACATGGGGGAGGAACAGCTCCGGGAGAAAGCCCAGGAGCTGTCGGACTGGATCCACCA
GACTGGAAGNTCTGANAAAGTTCGACCCTNGATGGGCGAAAGCTTGAAAACAGCNGNAA
ATATTGNAANATCAAACGGTNCCTGGTACCCTGCCCCNNGGCCGTGCCCGCTTTTAANA
AAACCTTANNNNNGGNANTTCCCCCNCNCNGNGNCTTTGNCCACTGNGAAANTTNCNNA
ATTANATTCTNAAAGCCTTTTAAATNCCGAAATTNCCCCGGTNCNTACCCCNCTTCGCTA
NGNGGGGGGGGGNGCC

Sequence 1602

GACGGAAGCTTAGATATGCCAACACAGCAATTACAAAATGATGTCATGATCAGAAAA
GAGGCTTATGTGCACAAGAGTGAATGGAAGAACTGAAGAGAATTATTGATGACAGTGAA
ATTACAAAAGAAGATGATGCTTTGTGGCCTCCCCCTGGATAAGGGGTTGGGCCCGACAGG
GAGNCTTGAAATTGAATTTGGGGGATGAAGCACATATCTTTTACCCACCATCAAAAA
ATTAGGGTNTCTTTTATTGGATGGTAAATCCAGTCCAAAGGGATTCTTGGAAGGCCCT
TCGNAGGTATTTTTTACTTATTTTGGGTTACCTCGNGGCNCGGCTTCTTAGAAACCTAG
GTGGGATTCCCCCGGGGGCCTGGCAAGGGGAATTTCCGAATANTTNAAGGCTTTATCCG
AATACCCGTTTGAACCTCNAAGGGGGGGGGGGCCCCCGGTTACCCCNAGCCTTTTTT
GGT

Sequence 1603

ACTATAGGGCGAATTGGAGCTTCNACCGCGGGGGCGGCCGCCCGGNCAGGGTACTCCTTC
GTNATACCCATCTGGGCAGTCCAAGACACCATTTGCACAGCTGGGATAAATGAACACATTT
GTTGGTACNCGGGATGATAATGTCCCGATCACCTTCGGCCAAGGGACACGACTGGAGATT
AAACGAACTGTGGCTGCACCATCTGTCTTCATCTTCCCGCCATCTGATGAGCAGNTGAAA
TCTGGAACCTGCCTTTGTTGTGTGCCTGCTGAATACTTNTATCCCAGAGAGGCCAAAGTA
CCT

Sequence 1604

GATCNTATAGGGCGAATTGGAGCTTCANNCNNGGGGNCGGCCGCCGGANGGNGGGTGACG
TGCGGATCTTNTCTTTTGTGGCTGTGGACACCTTTCAACACTGCCTTCTTGGCCTTTA
AAGCCTTCGCTTTGGCTTCAGCCTTAGGAGGGGCGAGGAGCTTCTTCTTCGCTTTCGGCG
CCATCTTGTGAAAAAGCCCCGCGTTACCTCGGGCCCGCTCTAAGAACTTAGTTGGGATT
CCCCCGGGGGCCTTGTCTATGGAATTTCCNAATAATCAAAGCCTTTAATTCNAATTAA
CCCGGTTCCNNAACNCTTCTAAANNGGGGNGGGGGGCCCNCCGNGTAACCTCCNAAGNCT
TTTTTTGGTTTTNCNCCCTCTTTAAAGATCGAAAGNNGGGGTTTTAAATTATAGCCAGCCC
GCCTTTTGGGNCCCGG

Sequence 1605

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAGATGGACCCGCTACGG
AACGAGGAGGAGGTTTCAGTGAAGATCAAAGACTTGAATGAACACATTGTTTGCTGCCTA
TGCGCCGGCTACTTCGTGGATGCCACCACCATCACAGAGTGTCTTCATACTTTCTGCAAG
AGTTGTATTGTGAAGTACCTGCCCCG

Sequence 1606

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGACTATAGTTACGTTA
TTTCTACCAAGTCACATACTCAAGAATTCCTTTACTCAGACCCATGACTTGACCACAGTG
ATAGCAGAAGCTGGGGTGGGCACAAATGCTTATACACAATATTACAAAAGACGACATTCA
CTGGCTTAGAGAACTGATGAATTTTCACTTTTACATTTTTATAAGGCTAGCTAACT
TTAACAGTTAACTTTAGATAAATCTACTTACACAGTACCTGCCCCG

Sequence 1607

GGGGGCGGCCGAGGTACCANAACCTCTATGCACACCTCCCTGAGAGTCTGGGAACCTTCA

Table 1

CCGCTGACCTGTGTGAGATGTTCCAGCAGGCATTTATGACACCAAATATGCTGCTGAGT
TTCATGCCCCGTTTCGTGGCCTCCTACTTAGAATATGCCTTCCGGAAATGTGAACGGGAAA
ATGGGAAGCAGCGGGCAGCTGGCAGCCACGCCTTACCCTGGAGTTCTGCAACTATCCTT
CCAGCATGAGGGACCATATTGATTACCGCTGCTGCCTGCCCCCAGCAACCCACCGTNCTC
ATCCCACCAGCATCTGTGACAACTTCTCGGCTTATGGCTGGTGCCCCCTGGGACCACAGT
GTCCTCAGTCTCAGATATTTGACCTTATCATTGACACTGATGAGGCTGCGGCAGAGGAC
AAGCGGCGACGG

Sequence 1608

TGGCCCCAGGTACGCGGGGGAGGAAGGACCTGGTAGTTTTGATGACCGCTGTCTGTCTA
GCAGATACTTGCACGGTTTACAGAAATTCGGTCCCTGGGTCGTGTTT

Sequence 1609

CGAGGTACTTTTTTTTTTTTTTTGAGTTAAGTGTCTTTTTAATTGAAAAGCTAACTGTC
CAGTTACATTTCTCCAAAAAACCAAACTGGGTAGTAACTGAGTCTCTAGGCAATATA
TTTAAACTAAGAGGATTAATAAAGAAAAAGAAAAACAAGTCTCAGATTGCAATGGA
AGGGGAGCCCTGTACATTACAGGCCTAANTCAAATACAGTGGGTACCTGCCCCGGGGC
CGGCCCGCTTCTAGAAACNTAGGTGGGAATCCCCCCCCGGGGNCTGCAAGGGAAATTCG
GATATTCAAAGCCTTTATTGGGATTACCCCGNTCCGAACCTNNGGAAGGGGGGGGGGC
CCCCGGGGTACCCCCAANGCTTTTTTTNGTTTCCCCCTTTTATGGGTNGNANGGGGG
NTTTAA

Sequence 1610

CGCTCACTTGCCCGCTTTCAGTCGGGGAAAACCTGGTCGTGCCAGCTGCATTAAATGAA
ATCGGCCAACGCCGCGGGGAGAAGGCCGGTTTTGCGGTATTGGGGCGCTTCTTCCCGCT
TTCCTCGCTT

Sequence 1611

GTGTGCCACCGCCACTACCACTGATATGCCGAGACCCACTCCAGCCCCCTTNCNTGGAGTA
NNGGCCGGNACCCAATTCATAGACATAATTTATCCANATAAGGTGAANTCTCAGTAGGGC
TTGTTNCNCTCTGAGCCCGCTTCTNAGNNAACNTAAGNNGGNATTNCCCCCTCCGAGAG
TCNTGGCAANGGTAAANTTTNCNNATTANNTCCNAAAGCCCTTTAATTCCGGAATAAAC
NCAAATTCNGGACNCCTTTNNTAGNNGNNGAGGGGNGNCTCCCGGNTAACACCCAAG
GACATTTATTTGGATTTCCCCCTTNTATTANGGTTGGAAGNNGGGTNTNAAAATTTNG
NCCNGCCCGCCCCCTTNGNGNCCCCTTAAAAANCCAAATTGGGGGTCCCAAATTAAG
CCTTTGNTTTATCCCCTTTGATNGGTTGNAAAAAATTA

Sequence 1612

AGGCTCCCGCCCCCTNACNGAGCATTTACAAAAAAATCGNAACGCTCCAAAGTTCAAG
GAAGGTTGGGCGAAAAACCCCGACNAGGGACCTATTAATAAAGAAATACCCCAAGGCCGT
TTTTTC

Sequence 1613

CGCTTACNCGGATTACNCTGGTCCCGCCTTNTCTCCCTTTCGGGAAGNCGTGGGCCGCN
TTTTCTTCATAAGTCATCAACGGCTTGTAAGGGGTATTCTTCAAGTTTCGGTTGGTTAGN
GTTCCGTTTCCGGNTTCNAAAAGACTGGGGGCCTTGNTGTTGGCACCGNAAACCCCCC
CCGNTTTCAGCTCCCGAACNCGCCTGCNGCCCCCTTAATTCCCAGGGTNAACCTTATT
NCGTTTCTTTGGAGTTTCCCAAAACCCCCCGGGTTAANAGGGAANCAACCGNAACCTTTT
AATTCNGNCCCAACCTTGGGGCCAAGGTCAATGNCCCAACCTTGGGGGTAAAA

Sequence 1614

CCGGGCAGGTACTGGGCTCTGACCACTATTGGTTTTGAGACCACGATGTTGGGAGGGTAT
GTTTACAGCACTCCAGCCAAAAATACAGCACTGGCATGATTACCTTCTCCTGCAGGTG
ACCATTGATGGCAGGAACCTACATTGTCGATGCTGGGTTTGGACCGCTCATACCAAGATGT
GGCAGCNCTCTGGAAGTTAATTTCTGGGGNAAAGGGATCANGCCTCAGGTTGCCCTTG
TGGTCCCTCCCGTTTTGACCGGGAAAAGNANGAANTGGGATTTCTGGGATATTCCTANN

GAACCCAAAAATTTCAGNAAAGGGGGNAACCANGGTTNCCCCTTNGNGGACCCCGGCCTCC
TTTANNANACCTTAAGGTNGGGGAATTNCNCCNCCCTCCGGGGGCCCTTGGCCAAGGGGAA
ATTTTTCGGAATTATTTCAAAAANNCTTTTAANTTCNGAANTTATCNCCAGTTTCTGAAN
CTCTTNCAAGGGGGGGGGGGGGGCC

CGAATTGGAGCTCCACCCGCGGTGGCGGCCCGAGGTACATCCAGAAATAGATCCAAGAAA
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AAAAAAAAAAAAAAGTACCTGCCCG

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CGGTACCTTGCCCGGCGCGCCGCTTN

[illegible]

GACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTT
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ACTACTTAGGGCGAAITGGAGCTCCCCGCGGTGGCGGCCGAGGTACANGACTCCAAGTCC
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GGCAAGATATTGTGCTAATACATTTCTAGGATTTCTAGATGTGGCTATAACATCCAG
GTTGCAATTTGGTGACGGATTTTTTATTCTATTGCAATGGCACTACCTCCAAACACA
AAAAGATTCTTGCCATAGCATCCAAACATCCCTATGTAGACCCACACTTCCTCTCAATAC

AGAAAGAGAATCACTCAGAAAGGACAAAGCTGGCAGACCAAGAAAGGAGGCAAGGGTAA
CTCTGTCACTGGCCAATTNTCTAAACAAAAAT

[illegible]

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AGAGCTGTCTNTCAGGCTCTGAGAGAAAGTAGCCAACATTACAGTAGACAGAGAGAGACA
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GTCCTCAAAGCAAATCTTANNNTTAAACTTCTTNTNAGGCNAAACCTGTNTGGAACACAN
GTCNNTTTAATCCTTCAAGGGTTTATATAANNATANTAAAATAATNAAGTTACNCTGCTC
CGGGAGTCGGGTCTCGACTTCTAAGAAACCTANGATGNGAATCACCTCNCGGNGCTTGCC
AGTGGAAATTTTCCGT

ACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACCAACATGTCCCGTGGT
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GTAGAATATGCTTTNAAGGCTATTAACCANGGTGGCNTTACATCAGTATGCTGTCACCAG
GGAAAGACTGTGCAGATNGTTGTCACACNNTAATTAAGTACCTGCCCCGGNCTNGACGAN
CTATAANANGTGCAATNCGGAGCACNNTTCACTGNNATGTTNCGCCGGAAGGCCTTCTCTCC
ACTGGTACCTGCCCCGGCGGCCGCTCG

[illegible]

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TTAGGNTTCAACAAAATGTNTNTTTGGCCAAAAAACCATGTGGACCACNCTCAT
CCCATGGGANTANATTTGTACTTTAGATTCTAAAGGAAAAAGA

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACGCCTTGTTTCAAAC
GTTCACTGTGATCTGTGGGTCTTTGAGTTTCAGTGAGTTTGCTGAAATGTCGAAGAAGTA
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TAAAGGTACCTGCCCG

TCTAAAGGAATAAGCTTGCGGCCGCTTAATTAATTTTAGGCACATGTAGGGTGATCCAA
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Table 1

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TCACGGCTTAAGGTGTTAAGCCCCTGNTNCAAAAGAAGCCTTGGTTACCAGGGNAAAANG
GCCACCNNTTGTNTTGTCAAAAAATATGAATTGTGGTTGGGAATTGGAAGGGGGGAA
GNGGGTTAAGGGCCAANAANTGGGAATGGAAGTTG

Sequence 1630

CTACTAAGGGAATAGCTTGC GGCCGCTTAATTAAGATCTTTTTTTTTCTTTTTTAAC
AAAATTCCTATAGAATATAACAATATTAAAGAGGGAACCTTAAGTGAACCCCCACTTTTG
GCCATAACTTCTTTTTGTGTCAGCCAGCAAGAGCCAAGAGAACATAACCAGGGTGGTAGG
ATGTAGCTAGATAAGCCTCTTTAAAGGCACAAAGAGGCCACTTCTCAACCAGATTGCCC
AAAGCCCCTTGGTTCAATGACCAGATAGGCCAACACGGGTAGTAGTGGGGTCATCAAGCCC
TAAATGCAGCTTCTGGGCTACCTTCTAGGATGCTCTGGAGCTTGGAACTGTCCACCTGA
AAGAGGGTTGAGGGAGGCTGGGATGAATACAATATTTGGGTCCACTGGATTTCTCATA
ACCCTTAGCCCC

Sequence 1631

GCCTTTTAAAGGGAATNAGCTTGC GGCCGCTTAATTAAGATCTTTTTTTTTTTTTTTT
TTAAGAAGCTGTAATGATAGTAACAAAGAAGTCCAACCTTTATATTGCACAAATNTTAC
TAACCATGTAGCATCTNTGTGCCTGACCAGCCCTGACAGATGAG

Sequence 1632

CCTCCTAAAGGGAATANGCTTGC GGCCGCTTAATTAAGATCTNTTTTTTTTTTTTTT
TAAACGCACAGAACAACCTTTGAAGGTGCCAAATTTAAAGATGGTAAAGTAACAGAGAA
GTAACTGTAACCTAATTGCTATGGCTTCAGAATAACCCAGTCAAAANACTTTCACATN
NAAAGGAAAAAGGAATTTTAAAATTAAGTTGCCCTTTGAAGTTTCAAATATTTTAAAA
NGGGTCTTGNAAATTTTTTTTTTCCCTTACCTTTTAGCNANAGGGGGNAAANCAAAATTN
TTAAGNTCCCTAAGAAATTTGNNTACCCAGGGGGGTTGTTATTCNTNCCCCCTTTTNT
TTTCNAAAAGATAAAATTTTTTGNCAAGGGTTTGGGAACCNTTACCAAAAAAGGGG

Sequence 1633

CCTCCTAAGGGAATAAGCTTGC GGCCGCTTAATTAAGATCTTTTTTTTTTTTTTTTGG
AGATGGAGTTTCAACAAAAAAGAAAGCAGAATCCACCATCTTCCTCCCTGCTGCAC
ATGCTCTTCTG

Sequence 1634

CCGCTTAATTAAGATCTTTTTTTTTTTTTTTTTTGGTTAATATGAGGTTNCATATTT
ATTTTGGTCATAAACATATGAGTNTTNNATATATAACCAGGTGTCATGTGCTNTTTGGCC
CNGTNTTTAANANCAAAAACCTAAACAANATCAACCCATTGCGCNCNAAAAACCCCAA

Sequence 1635

GCTAAATAACCCTCACTAAAGGGAATAAGCTTGC GGCCGCTTAATTAAGATCTTTTTTT
TTTTTTTTTATACTACTTATCACTATTTAAATTATATTTAGGTACTTATTGTTATCT
GCTTCCCCTCTAGGCTTCTGCTCTGCAAGGCCAGAGACGTTGTCTCTCTTCTCATAGC
TCGACCCCCACTGCGGAGAACAAGTGCTCAGCACTTGCTAACATGGCAGAAACAAAGCTG
TCTCCCTCAGTTCTCGTGGCAGCCCTCATTCTAGTTTGACTTCCTATGAAATTACTTTTC
CTAGTTGCTTGAAGGTCATGTTTTGCTTAAGATGTAGCTCCACCAAGCAGACAGCCCTA
TGTGGGGTTTGGAGGTGAGCAGTGAGAGGTGGTACCCATAAGGAGGAACATCANATCTGC
GGGGGGCAT

Sequence 1636

TACTAAAGGGAATAAGCTTGC GGCCGCTTAATTAAGATCTTTTTTTTTTTTTTTTTT
ACAAC TAGTGATTGTACACTAGCTCAGCTCCACCAAACCTACCTGTTGCTTCTTTTAT
TTGACATTGTTACAGACTAGTACATATTACAATAAGAGTGCTGGATAAAAACATGAGGT
ACNGAAAGTGTTCAAAGGATTATAGGGTCATTGCAGNATCATGCTNGACAGTAAAGAA
AATTGTGACTGAGAAAACACTAANTAAAAATACATAAAGAATGTGCATTANTAAAAAAA
AAAAAGGACATTNNAGATNAAGNACNNCAAAAAAACCACCACTCCATTNTNCANCAGC

Table 1

GCTCAACTGGGAACCTCTTTGAAGGCTAGGGCCATCAATTACATTTTTTGTTCCTTCCA
Sequence 1651
TCGCGGTGGCGGCCGAGGTACCGTTCCCTCCAGTGCCCGAGAGATGCTCTCCGCACCAAGCC
ACAGATGTGGAGGAGGCAGGTCTGGACTTCAGGCAGACAAGGAACCTCAGAAAAATCCTGG
GGAGAGACAGCACANGGTAAGAGGNTAGGTCAGNAGAAAANTCTNAAGGCTCCCTTTTTTC
AACTTTAGNCACTGTACCATGCCCCGGGGCGGGCNCGTNTCTAGTAACCTAAGTGCGGAAT
CCCCGGGCTTGCAAGGNAANTTCNGATTATTCAAAGCNTTATCTGTATTACCCGTTCTGT
ACACTTACNAAGGGGGGGGTGCCCCCTGGNTACCCNCAANCCTTTNTTGTTCNCCTTN
TTAGATGGAGGGGGTTTAAATTTTGNCTGCNGGCCTTTGGGTCGGTTAAAAATTNCAAATG
NGGTTNCAATTAAGCCTTGTTTTCACCTTGNTGGTTGGAAAAA
Sequence 1652
CCGGGCAGGTACCAGCCAATCCCTTCATTAAATGTATACAGATTTAGTTAAGTAGCATT
AATAGGATTCTTAGAAGTATGTCCTCATAGAACCTTTAATACTTAAGGCTTTGTAAAAAC
TATCCATGAAGGGAAAGCTCCTCAGCATAACTGCTCAGGGAAATAGGGCTAAATAACTGA
ACATTAAATAATTGGTTAAAGGTGCTGTTAGCCGAGCCTCAATGCTTGCTACAAGGATGT
ATGTACCT
Sequence 1653
CCGGGCAGGTACGGGGGTCTGCTTAAACTCTTCAGAGGTTACCATCGCTTCCAGAAAA
AGATCAATACTCCTGACGTGGCAACCTGTGAGACTCAGGACCGCTAGGAAATCAGCTCT
TGTTTACCCCTCTATCCATTACACTACGATCCAGCTGGGTTTAGGCATCACTTCCTCTGA
GCAATCCTCCCTGATGTCATGAGGCAGTGCTGAGTGCCCTTCTCTGGACCCCTCTGTTTACT
TGCTGTAAATCCTGAACATCTGGAAGGGAGTCGTGTTTACGCAACATATCTACGCCCTTG
CAGCACGGTGCCTGGCCTGCAGCTGGTGTTCGGTAAACAGCTGCTGACT
Sequence 1654
AGGTACGCGGGAGTAAATGCAGTACAAATTGTTCTACTGTTTTAAAAAGTTTTCCGCAGA
ACAGTGCATTTATGGCAATGCTATGTTTAATGAGTTAGGGACATCAAATATATAGTAGTT
CCTTATTTTTCAGTTGTGAAAATGAAATGGCTAAAGCAGAAGAGACGTCTATTTTAGTCTT
TTAAAAATGTGTGTGGGTGGTCTTTTTTCTCAGAAAGCCCAAAGCACATGTATATTTGT
TATTTCTCCTTGCTATATTCCTGAGACTATACTAAAACTTTAAGAAAAGGAACAAGAAA
AAGGTAATTCATGTGTTCCCCACTGCTGTGTCTAGAACCAAGATCACATTA
Sequence 1655
CCGGGCAGGTACCAGCCAATCCCTTCATTAAATGTATACAGATTTAGTTAAGTAGCATT
AATAGGATTCTTAGAAGTATGTCCTCATAGAACCTTTAATACTTAAGGCTTTGTAAAAAC
TATCCATGAAGGGAAAGCTCCTCAGCATAACTGCTCAGGGAAATAGGGCTAAATAACTGA
ACATTAAATAATTGGTTAAAGGTGCTGTTAGCCGAGCCTCAATGCTTGCTACAAGGATGT
ATGTACCT
Sequence 1656
CCGGGCAGGTACCTGGTAATTTACAGAACGTTTCGTTATCAGATTTGATAATTATATATTA
AGGTTGTAAAGAATGTGTATGCCAGAATTATAGGTAGTAGATCCTAGATTCTTAGGAAAA
ATAGTTTCTTTATAATCTTTTGAGTAGTGAAATGGTTACTTTTACAATGGTTATGAACTG
GGTCAAGGCAAAAGGGCCACTATATGTCTTCAGTCATCTTTCTATGCCTGAAATCCAGGA
AACAGTGAAAATGGATGTTCCCTGGAACAGCCATTGCGATGCCATATGTTGGTCATTGGT
GTCCTTAAAGTGTATCTCAGATAATTGTGTGTCTCCCT
Sequence 1657
TNACCGCGGNGGCGGCCGAGGTACAATTGATATAACAGCTTTGTTGCCACCCCAGGCTTT
TCTGTGATGATGCCATGGGCCACATTCTGATCAAACCTGCACACCCAGAAGGTGAAGTGT
GGCTCCAAGCGAGAAAAATTATTAAGTTTGGCACTTGAAACCCTGCTGTCCAAAAATTCT
GAAAAATCATCCTGAAGTTCAAACCTGTGTAGAACCTTCCAAGTAGATAGCCACTGGAA
AATGCCTTTGCAAATGACTTGGGACTCACGGTCCGGGACACCTTCAACTCCTTGTGAGC

Table 1

CACTGGCACAGGGATCTCCGACATGGTTCAGCCCGGTGCCTCATACCGCANGCGGGGGCT
TAGAAA

Sequence 1658

TCCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACTTATAGTTGAGAGC
CAAGTCTCCCTTATCATTGGTGAATGAGAATGAGCTACTGAAAAACAAAAGAGGGTCTTC
TACTCAGCCTCTACCCCTAATATTTATATCAGAAGCAGAGATTAAGTGTCTTACTCATT
CACACGTTAATGGAAGAGAAGGAAGTTTCTAGAAAAATCCTCCCGCTCCACCCTGCAAA
CTTTATGCTTTTCTGTTACATAATCAGGCAGGGGCAAGACCTAACTATTTTGAATTGGT
GGTGTGAGGCTAAATTCTCTGCTATTGACAGAATTGAGAATGTGATCAATTCAGAGTA
GCATGCTACAAATTTTGTCCCAATTTCAATGGGGAGAA

Sequence 1659

CTCCCCGCGGTGGCGGCCGCGCCGGGCAGGTCCCTNTGGTNGTNGCTCAGGAAGCTTTANA
NATATATGGCTATTTAATTTGCAAATAACTTAGAACTGCAAAAACACGTTACCTGGT
CTTGTTGAGAAAGAAATCATAAGTCCCCTGACTTAACTCTCTCAATTGATGAAGTGACC
AGGATTACTCAGAGTGCAGTTATTGGCACCCTCGAAGCACCAGAGTCCAGGAAAGATGCT
TATCAATCTTTTGCCATTGGCTTCTACTTGCCAGGTGCCTTCTCTACTATTCAATCATATA
CGATCATTGGAAGACAAATGAAGTCAAGAAAAGCAGCGAAACAGTACCTCGGCCGCTCT
AGAACTAGGTGGGATCCCCCGG

Sequence 1660

CCGCGGTGGCGGCCGAGGTNCCCGGGGATGCTGCCACCTAGGTACTTGTAGGACCCTA
TACGGCAACCTCCTTTGCCAGGAATATTTATAAACATCCTGCAGGAAAAATGCAGTGAAG
TAGAAGAGACAGGGATATCCAGAAAGTTATGCAAAACATCAAGAGAAGATGAGAGGAGT
CTATATGTCAGAATACACATTTCCACCTTGCCCAACAGTAGAAAAACATAAGAAGAGAA
AAACATTAAAAATGACAAGGAAGTTAATGGAAGTCAGCAATGTGATGGTGTGTTGGGAGG
TGGAGCCTTCAGAAGGTAATTAATGCCCTTGTAAGAAGAGGCCAGAGAGCTTGCGCACC

Sequence 1661

AGGTACAGTTACAAGTACTGCTGCATAACACTAAAGAAAACATTGTAATTCCTACGCCAGT
AGTGGGGGTAAAGTGAAGAACCAACCTAATTTTACCACAGGGCCCTCTGGAATAGAGGA
ACTAAATGATGACTGTTTGAAAGTGAAGAGGCAGATTCTAGAACATCACTCCTACTGC
ATTCCTTACCTCCACTCCATACCTTTCTTCTTCACTCAGGTAGGACTGTCTCTGGGAA
TGCATGGACAGCATGCCACAGTTCAGNAGCTTGGGATGTGATCCTGGGAAATGGGGCCTT
AAGATGACCCTTTATGGAAACACCTGGAAT

Sequence 1662

CTTAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGCCAGGGTCAAGTCCGTCATCGCCA
CCCCAAGCCCGCGGGCGGGCGGCATCCAGTGCCAGTTCTGTCGAGGTGAACGGGATATGCC
GGTAGTCGTCCAGCGACCGCGCACCATTGGCCGCCAGCCAGGTCAATCCAGTCTTGCTTGT

0

Sequence 1663

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGC/AGGTACCTGGAAAGATG
AACAGGATTGCAGCAGATAGAGACAGGTAGAAGGAGAGAGATTCC/AGTGGAAGGATAAA
GGAGAGGGAAGAGAAGCAAAGAGTGCAACTTCCAAGAAGATTTCTGGTTTCTGGCACTG
GTCATAGATAGCTTGGGAGGAAACAGGCAGAGAGGGTTTGGAGAAACAGAGCTGCAAG
CCAAGTTAGATGTTAGGTGAGTTGAAAAATAACTTAGGGCAAAAGCAGAGGGAGGGAGG
TATTTACTCTGAACAGAGATGACAGGGTGGGGGAGGACAGATTGTTTTGAGTAGGCAAG
GCCANGAGCATGAAGCAAGCTAGGAATTG

Sequence 1664

CCGGGCAGGTACTATTAATTTAATGAGAGGTAACCCATGCACCGGCAGGAAGTTCAAGG
GGACAGAAGGGGCTTGCTCCACTCTGGAGCCCTATCTCCTCTCACCTCCTTCTCTAGT
TTGACATGCGATCTTGCTCTCTCTTTTATAAAGTGCTTCCAGGCCCTTTGATTAGGAT

[illegible]

Table 1

Sequence 1671

GCGTTGGCGCTCACCTGCCCCGCTTTCCAGTGCGGGGAAACCTGGTCGTGCCCAGCCTGCA
TTTAATGAAATCCGGGCCAACCGCCCGGGGGGAGAAGGCCGGTTTTGCCGTTATTGGG
GCCGCCTCTTCCCGC

Sequence 1672

CTACTTAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCTGCTGAAAGATTAT
TTCTAACAGGCTTGTAGAGAAACGTCGGTTCATGTAAATTAGAAATTATGGGGCCACTTT
GCCATTCTTCACACCTGCAATGAACAGGTGTTTATCTGCAGTTCTGACTTATCTCTTGAA
CTCCATTTCGATGTTATAGTGGGATGCAGCTGATGCCCTGTCCAGATCTTCTTCAGGCCA
CTACATCTATATATGCATTCATATTCCAGTGGCTGTGAAGTGTGGGCTGTTGGTTGACA
GAAGGGAGCTGCATCCTTCTGGGAGGGAACTGAAGTTCAGCTGGATGAAAAGCCACCC
TGGGTCCTTGGGAGGGTGAAAGCATCTTCCAAAATGGACAGGCCTGGCAGGTCAATGGA
CTGGAT

Sequence 1673

CCGCGGTGGCGGCCGAGGTACGCGGGGTAGATGGAAGGAAGAACTTGTGTGCTTAGACCT
GACGCTGGGAGGAGATGCTGCCACCTAGGTTACTTGTAGGACCCTATACGGCAACCTCCT
TTGCCAGGAACATTATATAAACATCCTGCAGGAAATGAGTCTATATGTCAGAATACACA
TTTC

Sequence 1674

ACGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAAATATTTA
TAGATATGAGGCTTCACTTTGTTGAATTCATCATACACACACTTCTTTTTAGCAGAAA
TTAATAGAAAGCCAATTCTAAATTAATGTAGGTAATACATAATCTACTCAACTGGATGAA
TACCTTGGTTGCAAGTCTTGCTCTGAGCGAGCTAAGTGACAACACTCTCAATCTACTGAG
CTTCCAGCATCTAGGCAGAGCTCCCAGGACAAGCAGAAGTCACAGGGAACAGGAAGCAGG
AAAAGAGCAGGAAAAGATCCTTTAGTTCCATGTGTAGAAACAAATGCTCAACTGNCTTN
TGTATTGAANCCTTCTGGATGCCTGNCNNTTTTATTTGGTCANTTGGNGGNATAGGAAAA
TCCTTTTTTAGGTTGGGCAGNCCNATTTANAAAAATTTGGGAAACCCCNCCCTTTTTTN
AAAAAA

Sequence 1675

GTACCAGGCTAGGCAGCTCTGGAGAAAGCAGAAGTGGATAAATAAGGTGTGGACTCACCA
AAGACAGTTCCAAAGTCAATTTCACTCTGACACACTCTCTGTGATCTTCCACAGTCAGCA
CAATGCCTGCCCCCTGCTAGGCCTGATGGATGATCTGATAGAAAACCTGGCTTCAGC

Sequence 1676

CCGCGGTGGCGGCCGAGGTACTGTTGCTGCTTTTCTTGAGTTCATTTGTCTTTCCAATG
ATCGTATATGATTGAATAGTAGAGAAGGCACCTGCAAGTAGAAGCCAATGGCAAAAGATT
GATAAGCATCTTTCCTGGACTCTGGTGCTTCGGGGGTGCCAATAACTGCACTCTGAGTAA
TCCTGGTCACTTCATCAATTGAGAGAGTTTAAGTCAGGGGACTTATGATTTCTTTCTCAA
CAAGACCAGGTGAACGTGTTTTTGCAGTTCTAAGTATTATTTGCAAATTAATAGCCATA
TATCTCTAAAGCTTCTGAGCAACAACCAAGAGGTACCTGCCCCGGCGGCCGCTCTAGAA
CTAG

Sequence 1677

AGGTACGCGGGACATTGATGGGAGAGATGTGGAGGAAGAGGGAAGAGGTCATTTTCCGTG
AATACAGCTTTTCTTTTACCCTTTAAACATTTTGTCTCCCTTTGTTCTTTTCCCAGATT
ACTTCTGTTTGCTTGGGTTTCATCTGGCTCTCCATGAATGTCTGCTTTTCTGGAAAACCT
TCTTGCTGTATAACCAAGGGCCAGAGTATCACTACCTCCACCAGATGTTGGGGCTAGGAT
TGTGTCTAAGCAGAGCCTCAGCATCTGTTCTTAACCTCAACTGCAGCCTTATCCTTTTAC
CCATGTGCCCCGAACACTCTTGGCTTACCTCCGAGGGATCACAGNAAGGTTCCAAGCAGGG
AGAACCAGGGAGATTGTTGGATAAAAGCAGA

Sequence 1678

Table 1

CTACTTAGGGCAATTGGAGCTCNCCGCGGTGGCGGCCGCCGGGCAGGTACGTAGGGGCC
 CTTTGCTGCAAGCTTAGGCCAGTGTGAGCTCCTGAGCCACTCCTGACTCAGTTGGAGGAG
 ACTCAGTGTCTCTGCCCCCTGCCTGGTGGAGCTTGGCAGCAAGTCCCAAGTTTACAGT
 GTTGAGACCAAGTGGGCAGCCATCACCATTGAGGGGTGCCCTTTTCTCCCCCTCGAGTC
 CAAGTTATAGTATTGCTTACTTCTACCTGAAATAGTTTATGGGTCATGGGTCTGGCTTA
 CATCAAGCCCCATAGCCAGTCTGGTTGCCCCACCTAAGGTCTTGGTGCTCTTTGATAATA
 GCCACAGCTAAATGTATTAGTCCTGTCTAGGGAAATGCATTGATCTTCTNCCCCAAAAT
 ATATA

Sequence 1679

TTCTCTTACTGATAGTAGGATATTTCTGCTTTAGTTATTGTCACCTTAAATATATTTTCA
 ATGTTGAAATCCTCACAGCATGTTTGATGAAATCTAGTTTTCAAATTTTCTTAGGTATAT
 TTCTGTCACGTTGGCATGATAACAAATGCAATAACCCAAAAGACCCCAAAGCTAGTGTA
 ATCCCTTTTGCAATCCAAGCATGAGGATTCATCTTCATGTTGACAGTGCGTGAATGTTG
 GTAGGCTTTGTCAAGCTTGCATACAATAAATTATATATGTCCCTTTTCTTTTAGGGTC

Sequence 1680

CCGCGGTGGCGGCCGCCGGGCAGGTACTTACAGGGGACCGCCAGGGGCCTCGAGAATCG
 GTATCCTGAGTCCTCTTGAAGAGCAGTAGAGTTGTTTCATTAAAGTGCAAACACATTGTT
 CTTAATTTGAAACTGTGGGCAGAAACAGAAAGCCCGAGACTAATTTTCCATTGCTAACT
 CTAGATTCTCGGCCACTGGAGTCTGAAGATACTCTCTTTGAGAATGCATATTATTTTGCT
 CACAGCTAAACATTTAAGTATCATAGCTGATCAGTGGAGTGAGATTAAAAAGGTTTCTT
 TTTTGAATCATCAGCTAGAAGATGTACCCTCGGCCGCTCTAGAACTAGGTGGGATC

Sequence 1681

CCGCGGTGGCGGCCGAGGTACAGCAATGGCACACTCTATCCTAATAATGACATCCTGTAT
 AATTTAGTATGCTCTGTATCTCACTTTAAATGTAGCATTAAAGGATGAAGCAGTAGAAAAT
 GAACGCCGGGCCCTTTTAATAATGAGGCTCAGGTTTGCTATCTTAATTTAGGAATTAGGA
 ATGGGAGGGATGCTAAGGAGACTGTTTAAATTTTAAAAAGTTCTCTCTATGCCTGATAC
 AGATGCAAATTTGCTTGCTCATTACATTCTTTCAGCCTTTTAAACAAGTTTGCTAAACA
 ATCATTCTCTGGCATTAAAGACAGCTTACCTGCCAAGCTTGGACATTTTCTATAACCCAA

Sequence 1682

CACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGTGATTTTAAAG
 AGAATAAATGTCCAGATTCCCAACTCCTATATGCACTTTTTACTAAAATGATTCTGCTTG
 AGAATGTGCCTGCAGTGTGAGGGAATGCCGTCTCTTTTCTCTTTCCCATTTTCCATTCA
 CCCTTTAAAAAGGCAAAGCACACCTCTTCTCATCTCTGAGTCTATTCTGGCATATCACCT
 TGTGGTGTA AAAACCTCCAGGCACCAAAACAAAGGGACACTTTGAAAATATTAGTGTCATA
 AACTTGTGATAGGGCTCCAAATCTTTCTTGTCTGTTATATATGTATTTCTGTAAAGGAAA
 GAAGTGGGATAGAAATACAAAGTTGAAGGAGAAAAGGAAGGGATGTAAAGCTTTCTGGAT
 TGTCT

Sequence 1683

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGGGCTCTTGATA
 TATCCTGGCCTTAAGTCTCAGGTTCTCCAACAAAGCTGGCAGCCTGTGGTATGCCTTCTG
 GGGCCAGAGAGTGTGGCATGATCGAGGTCCTGAGTCTCTCTCTCAATGAGCCCATCATA
 TTGGCTTAACCAAGCCAGTGGTCTTCAGGA

Sequence 1684

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACAGATGAAGAGGC
 AAGAAAATTATGCCAAATTACCCTGTTTCCCTTTGTCACTGCCTCCTCGCTGACACCT
 TCATTCTCCTGCAACCTTACACTTTGATGATGACTTGCTCTGCTTCCATGGAACCTACTTC
 ACTTGGCCTATGGCACAAGGCACCTTCTTCCGGCAACATTTCGCACCTTGGGAGGGGGCTA
 TTTTTCATGCACCTAGTCCATTGCAATCCATTTGTTCTTGAAGGGCAAGATAGAACTT
 TGTTTTATTATCTACACTCACGAAAAACAAATTTGTGCACCATTCCTCAACACTATTCTT

Table 1

TTTTCTTTTTTATTTTAGTAAAAGG

Sequence 1685

GTGGGCCGGGCCGAAGGTTAACGCCGGGGGAAGCCTACCGGGCNAAATCCCTGGAAACT
TTCCCTGGAAAGAATGGTTCCTTTGGANTGGTGGCAGGCTTGGGGCCATTTTCCCTTCC
GAACCTTCTCTTCCCANCCCCTAAGCCTTCCCCAAGAAACCAATTCACCATTAATCAA
CTTGCCAAAAAAATTAAGGCCAATTTGCCANTAACCATTGGGNNATTCCAAGGGCCCCC
AGGTTGGGGAAAAAATTGGTTAAAAAGGAAANGGCCCTTGGNAANGCCTTNNATTGG
GGGGGTTCCAAAAAATTGAAAAGGGGTTGGAAATTTTCCAANANGGCCTTGGANAANGG
GAAAAAATTATGNNCAAAAAATTTTCAACCCCTTACCAACCAAGTTTTNTTTGGGA
AAGGGAATTGGGGTTTTNGCCAACCCGGAAAAAACCAACCAACNTTTGGGGGGGGAAAA
ATTTGNGGGAAGGCCAANAAAAANCCAANGTTTCTTTTTTGGAAAAATTTANTCCCGG
NAAACCAACCCCTCCCAAAGGGGGCCTTTGGNTNGGAAAGNAACCCTTAACCCCTTAA
ATTTTGGGTTAAGNAAATTAANTTTTNGGCCACCCCCCTTTATTGGGAACCCAATTTT
TGGGGNTTTNGGGTTTCCCTTGGNAAATTTCCAAAAGGGAAAAATTTTTTGGGNTTNGN
TTGGGGGGAANCCGGTTTTTGGGGCCCCTTNGTTTTTTTGGCCTTTTTTTTTTAATT
TAAAA

Sequence 1686

TAAAGATACCAGGGCCGTTTTCCCCCTGGAAAGCTCCCTTCGTGCCGCTTCTCCTGGTTC
CGACCCCTTGCCCGCTTTAACC CGGAATACCTGGTTCGCGCTTTTTCTCCCTTTTCGGGG
AAAGCCGTTGGGCGGCTTTTTCTTNAATAAGNCTTNAACGCCTGNTAGGGTATTCTTCAA
GTTTNNGGTGGTAAGGGTTCGGTTTCGGCTTCCCAAAGCCTTGGGGCTTGGTTGTTGGCA
ACGGAAAAACCCCCCGGTTTCAAGACCNCGAACC CGCTTGGNCGGCCNTTNAATTN
CCCGGGTTAAACCTTATTCCGGTCTTTTTGGAAGGTTCCCAAACCCCGGGGTTNAAGGA
ACAACCGGAACCTTTAATCCGGCCCCACCTTGGGGNCGNAGGCNAAGGCCCAAACTTGG
GGNTAAAACCAAGGGGAATTTAAGNCAAGTANNC CGGAAGGGGTTAANTGGTTNAGGGGC
CCGGGTTNGNCTTANCAANGAAAGTTTTCTTTGGA

Sequence 1687

ATTGGAGCTCCACCGCGGTGGCAAAGCAGACTTTTTATTTTAAACAAGGAAAGTCATAAAG
TGAATTTTTTCATGAAAGAAATAGTCTTCATTTAAGAAAGTGTTGCCGTTAAAGGGTTAT
CTTGGCACTAATGATTGGCTTTGGGTGATTTAATCTGAGATGTCTGTCATAAAGGAAA
TTATGAGACCATAAAATTGAGCTTCTAATTTTCTGTAAGAATACAGAGGAGAAGGAAGGT
AAACTGTTAAGGGTGAGCTTAAGTAATACACAGATCCTAGATAATCAGTTTGCATTTTG
TGCTAATGTAAGATCACAATGCTTGTGTTTGAATTAATGTTTTTTTACTGATAAGAAAGA
TTTGAAATGGACAGTTGGAATCAATCAACAATATTTCTTGGGGGTGCATTTCCACTGGAT
GC

Sequence 1688

TGAATCTGCATTTCTTGGATGAGATAGTTAATAACAACTATTTCTCAATATTTGTATAC
TAAAACTAGTGAAGGTGTTATGTGTTTCAGTATCTTATCTTATTTGAACATGGGTTT
CTGAAAGGAGCCTATATAATAATAAATGGTATGTAGTAAATGAGGCACTGTCTTGGCT
GGGACTGCTATAAAAAAATTACCATAGACCATTGACTAAACCACAAACATATACTTCTCA
CAGTTCTGGAAGTTGGAAGCCAAGATGAGGATGCCAGTATGGCTAGCTTCTAGTGAGGG
GTCCTCTTGACAGTTGCAGACAGCCGGCTTCTTGGCTCCTCACATGGCAGGAAGAAGGTG
CCGCAAGCCTCTCTGGCCTCTTCTTACCAAGGGGCATTAATTACCTTC

Sequence 1689

GACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGCATGGATAAT
TTAGATGTGACTCTGGACAGAGGGATGGATCAGATGACTTCTTAAGTTATCTTCCAGTTT
AGGAGTTTCGTAACTATACTTTCTCCTTTCCAGACTATCCTAGTAAGAAAATCTCTTTT
AAGACAGAGTAGAACTCTGGAATTCATCAGTTTTGATGTTTCTTAAAGTGTAATCTAAGA
TAGTGCTCCTGTATTAAGTTCTGATGTCTGACCATTGTTCAAATAAAGAGTAAATGCAA

Table 1

ATGACAGGAAATTGGCTGTGTTCTGAATCCTATTTTTATTTGGGATAACAATAAGCCTGT
ATGGTCACTGGTGACCTTTTGATTTGCTGTTTCTGCAACCTCACACTTGCCTCAGGATTC
TTCTTCCACTTCTTGCACTTTATATTG

Sequence 1690

GAATTGGAGCTCCCCGCGGTGGCGGGCCGAGGTACAATATAGGCAGACAGGTTTGCCTTCA
GAAATTCAGAAATGCAGCTTTTGAGGGAGGTGAGCATCATTGGTCTCAGCTACCATTTTC
CTGCAGGATGTTTATAAATAGTTCTTGCAAAAGGAGGTTGCCCGTATAGGGTCTTACAAG
TAACCTAGGTGGCCCCGCGTACCTGCCCC

Sequence 1691

GAGAAGGCGGGTTTGCNGTTATTTGGGCCGCTCTTTCGNCCTTCTCGCTCACTTGACTC
GCNTGCGCCTCGATTCAATTCGGGCNTGATGGCAGAAGCCGGCTATNCAGCNTCACCTTC
ANAAGGGGCGGNTAAATTACCGGGTNTTATTTCCACCAAGGAAATTCAGNNGGGNATNAA
ACCCCCAGGGGAAAAGTAACCATTTGGTGGAGTCCAATAAAAGGGCNCACNCCAAAAATAG
GGGCCCATGTNNAANACCCCGGGGNAATAAAAAAGNGGCCCGGCCNGTTNTNGGCCTTG
GGGGCCGGTTTTTTTTTT

Sequence 1692

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACACATGATGAAGAG
GCAAGAAAATTATGCCAAATTACCTGTTTCCCTTTGTCACACTGCCTCCTCGCTGACAC
CTTCATTCTCCTGCAACCTTACACTTTGATGATGACTTGCTCTGCTTCCATGGAACACT
TCACTTGGCCTATGGCACAAGGCACTTCTTCCGGCAACATTCGCACCTTGGGAGGGGGC
TATTTTTGCATGCACCTAGTCCATTGCAATCCATTTGTTCTTGAAGGGCAAGATAGAAAC
TTTGTTTTATTATCTACACTCACGAAAAACAAATTTGTGCACCATTCCTCAACACNATTC
TTTTTCTTTTTTTATTTTAGTNAAGNGGAGAAAGCTTTT

Sequence 1693

GGGGCCATTGAGACTGCCATGGAAGACTTGAAAGGTCACGTAGCTGAGACTTCTGGAGAG
ACCATTCAGGGCTTCTGGCTCTTGACAAAGATAGACCACTGGAACAATGAGAAGGAGAGA
ATTCTACTGGTCACAGACAAGACTCTCTTGATCTGCAAATACGACTTCATCATGCTGAGT
TGTGTGCAGCTGCAGCGGATTCTCTGAGCGCTGTCTATCGCATCTGCCTGGGCAAGTTC
ACCTTCCCTGGGATGTCCCTGGACAAGAGACAAGGAGAGGGCCTTAGGATCTACTGGGGG
AGTCCGGAGGAGCAGTCTCTTCTGTCCCGCTGGAACCCATG

Sequence 1694

CGGCCGCCCGGGCAGGTACAAGGGAGACAGCATGCAGGGTGTGTTTCAAGAGCTTGCTG
AGGTGCTCGGCTCTTAGCATTAAAAATGTGATGTTGGTATATCATCCTGATAGAAAACAC
TGCTTTCCAAATCCTAGTCACTTGGATGGGAGGAAAGTAAGAACAGATTCTTCCAACCAC
TACTGATTTGTTATAATTCTCCCCATTGAAATTGGGACAAAATTTGTAACA/GCTACTCT
GAAATTGATCACATTCTCAATTCTGTCAATAGCAGAGAATTTAGCCTCAACACCAACCAAT
TCAAAATAGTTTAGGTCTTGCCCCTGCCTGATTATGTAACAGAAAAGCAT

Sequence 1695

GGGGCCATTGAGACTGCCATGGAAGACTTGAAAGGTCACGTAGCTGAGACTTCTGGAGAG
ACCATTCAGGGCTTCTGGCTCTTGACAAAGATAGACCACTGGAACAATGAGAAGGAGAGA
ATTCTACTGGTCACAGACAAGACTCTCTTGATCTGCAAATACGACTCCATCATGCTGAGT
TGTGTGCAGCTGCAGCGGATTCCCTCTGAGCGCTTGTCTATCGCATCTGCCTGGGCAAGT
TCACCTTCCCTGGGATGTCCCTGGACAAGAGACAAGGAGAAAGGCC?TANGATCTACTGGG
GGAGTCCGGAGGAGCAGTCTCTTCTGTCCCGCTGGAACCCATGGTCCACTTGAA

Sequence 1696

CCGGGCAGGTACGCGGGACAGTTCTCTTTCCTCCACTAGACTGAGCTCTTCAGAGGAAGA
CTCATTGGCTGAAACCATGATTTTACTTTAAACACATTGAAAACCTCTACTGGAGTGCA
TTGTGTCTGGTGGGCTTCAACCTTAATTCTTAAGTATGTGAAAACACATCACCTATCTGG
AGGTTTACACTTTCTGCTAATGACTTTATTTTAAAGCCACCACCCTAACACAACAAATA

Table 1

CTTAAACCTTGCTTCATTTCTTTAGGTCTGGCCCTCATGCATGCATATAATTTATAGA
GTCAGTGTCTTCTCGGTTGTCCTCATGCCTCTATATTATGGGAGGT

Sequence 1697

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTGGAGATGGAGTCCCATTCCGTCACC
CAGGCTGGAGTGCAGTGGTGTGATTTTGGCCTACTGCAACCTCCGTCTCCTGAGTTCAAG
CAATTCTCCTGCCTCAGGCTCCCAAATAGCTGGGATTACAGGTGGGCACAACCTACACCCA
GCTAATTTTTGTATCCTTAGTAGAGACGAGTTATACCATGTTGGTCAGGCTGGTCTCAA
ACTCCTGATCTCAGGTGATCCACCCGCTCGGCCCTCCCAAATGCTGGGATTACAGGTGT
GAGCCACCATGGCCAGCCGGTTGTTTACTTTTGATAAAGGATAGCCAATGTAGGATTAA
GAGGATTCCAATCGCAGTCCCCAGGTGGGAGTTTATCCATCAATAAAGCAAATTACGAT
AACTCATAGTGATAAATATTAACCCAAGCAACAGGAAAATATTTATTTTCCAGTGT
CATTGGGCTTCTGAATCATTCTGGACACATGTATTTCCCTGTCTATATTAAGTAGNAT
GTTATTTTCTCACTTTAAATATCCCGTTAATTTTTGGATTTATTTGNTATTTTGA

Sequence 1698

CCGCGGTGGCGGCCGTAGCTTGCAGGGGTGCTATGTGAAGATGGCGGAATCCCAACGTG
CTTCTGCAAAATTTATGTATTCATCCCCCTCTGCTCTCAGTAGGGTGTACCACCTGCG
GATCCTTTGCTTTCCCGCTGGATACTAACAGCCTTTTTCATAATTGCTAGCACCTATGG
AATTGAGTGTGAAGTGAACAAACAATAGTCTTTCTCTGTAATGTCAGAGTTATTTATAA
GACGAGGCAGTGTAGACATAAGAAAGAGCACTGGGCAAAGAATCAGACAACAGGATTT
GGTCCATTCTTTTATTATCAAAGATAAAAAAAAAACAATATTTTAAAGATGCAGTC
CCAAGTCTTATAAGGAATTTGAAGGCTTCTGGGATCTAATCTAGGTCATGCCATTCTGC
CTTCCCTTGCTGTGTGCCCTGACACAAGCATGGAAACATGTATTCACTTACCTTTGCC
TTGGGAACACTTTGGTGGGGAAAAATGTTGATATAGGTTAGCATTTTATAAACTGTCAA
GTTGTACCT

Sequence 1699

TCTGAGAACTTGGGCTGCGCAGGGAATGCTGGTGTGGGAGAAGCAAGCCAACCTGAGCTGA
GCTGCGGCCCTGTTTGTCTTAGCTCTCCAAACCTGCTGTCTATGTCACTTGAAGGAA
TCTGATCTTTTCTGCAAGGCACTGACAATACCTTACAACAGAGCTGGGAGATAAAATGC
AGAGCTTGTGAAAGTCATCAGAAAGTTGAACACAGATGGTCCCCGGCTTCCCGCGTACCT

0

Sequence 1700

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCAGCGGCCGCCGGGCAGGTACTGCACTG
TGGTTTTGATTTTCCCTGGTCATTAGTGATGTGAGCATTTTTTCATATGTTTGTGGCC
ATTTGTGTATCTTCTTTGAGAATTGTCTATTCATATCCTTAGCTCACTTTTGATGAAAT
TGTTTTTTCTTTCTAGTTTGTGAGTTCATTGTAGATTTTGGATATTAGTCCTGTGAG
ATGCATAGGTTGTGAAGATTTATATCAAAAGTGTAGAGCCTGAGTTTGGTCATGAGGAAA
TATTAGAGAGACCCTGGTTAGTGTAGCCTAAAAAGTGAATGCCTAAATACTTAGGATT
GTTAAGGAAATAATAAACCAAAAAACATTGAAAAACAGAGAGCAGCTGCACTAGTGTGA
GAATTGAATGAATATATCAGAGTTCTTTTAGTGCCCGTGAGATGCTAACCTTTTGACCTA
GGCAGAGTAGAGATATCCACAGAGCTCATTGGACATTCACTTTAGACCTCAGAAAGGGC
ATACTGTAGGAAGTAAGGCCACATTCTAATGTAAAGAACTTAACCTTTGACCAGTGGAC
AAAAATTGAAACCAGACCTTATAGAGCAAATGGATAAAATCAACCCGGGTGAA

Sequence 1701

TGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACCTCTGGTTGTTGCTCANGAAGCTT
TAGAGATATATGGNTATTTAATTTGCAATAATACTTACAACCTGCAAAAAACAGTTTACC
TGGTCTTGTTGAGAAAGAAATCATANGTCCCCTGACTTAACTCTCTCAATTGATGAAGT
GACCAGGATTACTCATAGTGCAGTTATTGGCACCCCGAAGCACCAGAGTCCAGGAAAGA
TGCTTATCNATCTTTTGCCATTGGCTTCTACTTGCANGTGCCTTCTCTACTATTCAATCA
TATACGATCATTGAAAGACAAATGAACTCAAGAAAAGCAGCGAACAGTACCTNNGCCGC

Table 1

TCTANAAGTAGTGGATCCC

Sequence 1702

NAGGATACCAGGCGTTTTCCCCCTTGAAGCTCCCTCGTGGCGCATCTCCTGTTCCGACC
CTGCACGCTTACCCGGGATTACNCTGTNCCGCACTTTCTTCCCATTACGGGGTAAAGCCG
ATGGGCGGCTNNTCTCAATAAGTCNTCACCAGCTNGTAAGNGGTANTNCTTCAANGTTTC
NGGNTGGTAAAGGGTCCGGTTACGGCCTTCCCAAAGACCTGGGGGCGCTTGTGGTTGGC
CACCGAAACCCCCCCCCCGTTTTCAANACNCCGNAACCCGGCTTGNCCGGCCCCCTTA
ATTCNCGGTTTAAACCTAATTTTCGGGTCTTTTGAAGGTCCCCAAACCCCCCG

0

Sequence 1703

CGACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACTCACTGCGTA
TTTAAAGTTCTTGGGGCACTGTGTAAGTGTAGGAGAAGATAGATGGAGTATCTAATTAA
TCTAAAGATAAAAATGAATGAGGTAGAATCCATTCACTAGACTAATAATAGTTCTTAAG
ATCTATAGGATTTCTCTTTGGAGTGTGGAGACATAGTGTGGAGACATTTGCTAATGTAG
CCATAAAGATAGACCTATTGTCCATTGCAATGAAAGCAACAAATACTATAACATAAAATA
TTTCCAAATTGGTTTGGGTGAAAATAAGCTTGTTCCTCAATAAATGTCAGATGGCACTTG
TTGTAAGAGGTAACCTTGAAGAAATTAATTAATATATTATTTCCAGCCAAAAACGTCA
TGCATTTTGAAGTTCACAAAAGTCTGTAATAATATGCACACAAATGTCCATCAATTGTA
ATTTATTTCAATAAAGAAAGGTAGCTTATACCACTTGTGGCCATCAGATTTCTATAGAC
TATGCCTCAAGAAATTATCTAAATCTAAGGNGTTAGCAAAATAGTGCTTACATGTATTTT
ATAGTATGAAATCACCTTCAATATACATATTCATATAAGTTGTTTAAAGCTGGGGCACTG
CTTACTGAAAAAATAATCTTTACATTCTCTATTTAGAAAAAGTAAATATCTTAAAGG
GAATGGCTCANCTGGTNAATTTCTACNGAGGGTTAAAAGGAAGGAAAGAAAAAA

Sequence 1704

GGAGCTCCCCGCGGTGGCGGCCGGGGGCCATTGAGACTGCCATGGAAGACTTGAAAGGTC
ACGTAGCTGAGACTTCTGGAGAGACCATTCAAGGCTTCTGGCTCTTGACAAAGATAGACC
ACTGGAACAATGAGAAGGAGAGAATTCTACTGGTCACAGACAAGACTCTCTTGATCTGCA
AATACGACTTCATCATGCTGAGTTGTGTGCAGCTGCAGCGGATTCTCTGAGCGCTGTCT
ATCGCATCTGCCTGGGCAAGTTCACCTTCCCTGGGATGTCCCTGGACAAGATTTTACTCC
CATAACCCAGGCAGAAGTACCTCGGCCGCTCTAAANCTAGNGGGAATCCCCGGCCCTGN
GGNAATTTNATNNANGCTTTTTANTNANNCCCNCAACCTTNTNNGGGGGGGGGCCC

Sequence 1705

CCGGGCAGGTACAAGCTATCAAAGCGCGCAATTTCTCCTGCAAGACTACGACAAGGATC
CGTTTATTGCAATGGAGATCATAAATAGGTGTCTTAAATTGAATGGACTTGACCATCTCC
CCAGTACTCTGCGTTGTTACCACTGCTTCCCGCGAACTCTGCGTTGTTACCACTGCTTCC
CGCGAACTCTGCGTTGTTACCACTGCTTCCCGCGAACTCTGCGTTGTTACCACTGCTTCC
CGCGAACTCTGCGTTGTTACCACTGCTTCCCGCGAACTCTGCGTTGTTACCACTGCTTCC
CGCGTACCT

Sequence 1706

CGCCCGGGCAGGTACAATGGAACAAGGAGATAAGCAGTGAAAGGCCAAGGGAATGTCTGG
AGTTAGGACTTCAGGTGATTCACAACCTGGCTGCCACTCACCCGAGACTGCCCAAGCCCA
GATTTCTTCTTCTATAAGAATATTGATTCTTGCAAATAAGATGAACCTAAATGTGGTCC
AGGAGTCAGCATCTTCTACATGGTACCT

Sequence 1707

GAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGTTGCTGCTTTTCTTGAGTTCATT
TGTCTTTCCAATGATCGTATATGATTGAATAGTAGAGAAGGCACCTGCAAGTAGAAGCCA
ATGGCAAAAGATTGATAAGCATCTTCTGGAAGTCTGGTGTCTCGGGGGTGCCAAATACT
GCACTCTGAGTAATCCTGGTCACTTCATCAATTGAGAGAGTTTAAATCAGGGGACTTATG
ATTTCTTTCTCAACAAGACCAGGTGAACGTGTTTTTGCAGTTCTAAGTATTATTTGCAAA

Table 1

TTAAATAGCCATATATCTCTAAAGCTTCCTGAGCAACAACCAGAGGTACCTGCCCCG

Sequence 1708

CCGCGGTGGCGGCCCGCCGGGCGAGGTACGCGGGAGGCATGAGCCACTGTGCTCGGCCAAG
ATTCTCTTAAATTCATCTTTTGCTTTTATTTCCGCTTACCCTGCTTCAGACTAACTTCT
CACCGTCAATCACAGAATTGGTTGGATAGTTTGCTTTCTTGCTAATTTTGCCTTCTTTCA
CTTGTTCTCTATAAATTGTCCAGACTATCAGATAAAATCCAAATGTTTCATCCTTTGCAA
CTGCTCATATACTGTCTAACTTAGTGAAACAACTGCTTTCATTGTTATTTGTTCTTCAG
AATACTACCTCCTAAGTAAATGGTACCT

Sequence 1709

ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGGCCGAGGTACCGTTCCTCCAGTG
CCCAGAGATGCTCTCCGCACCAAGCCACAGATGTGGAGGAGGCAGATGGCCTGTGAAAAAC
TGAAGGCAATTTGGAAGGCATTTTAAATTCGCTGGAGCCACTGGAGAAATGTTTACAGG
AATGATGCCTTAAATTCCTCAGTGGTAAGATCTGAGTACCTGCCCCG

Sequence 1710

ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGGCCGAGGTACACCAGAACTTAAA
GTATAATAATAAAAAATAAGTATTACAGAACATGGTCAATTATATTAAGTAGATTA
ATTAATGTCCATATATACATTTTTTGGTGGAAATCAAACATAATGAAACTATTTACAT
AATTAATATTTTGTATTTTACTTATTAATTTATTGCAGAGATGGGAGTCTTGCTAT
GTTGCCCAGGCTAGTCTCAAACCTCTGGCCTCAAGTAATCCTCCACCTCAATCCCCCAA
AATGCTGGGATTTAGGAACATGCCACTGCACTTTATTAGTGTACCTGTCAATAAGTTA
ATTACTCATAATTTTATTTACAGTATATATATACACACACACACCATACACACCATAGT
AGAATAAATTAATTATATTTTCTACAAAATTTTCAATCTTTT

Sequence 1711

CCGCGGTGGCGGTGCTGGCGGTCACTCTCGGCTCATTGCTGCAGGTGCTGATCCCCCGAG
ACTGGCTGTTGCGCCTGTTTGGTCGCGCCGGCCTGGGTTCCACCCTGCGTGGCGGGCTAT
TCGCCTTGCCGGGGATGATGTGCAGTTGCTGCGCCGCTCCGGTGGCGGGCCGGTATGCGTC
GGCAGAAGGTCTCGGTGGCGCGCGGCTTGCGCTTGATTGCCAACCCGGTACTGAACC
CGGCGACACTGGTGTCATGGGCTTTGTGCTGGGCTGGGGCTTTACCGCGCTGCGGTTGG
TGCCCGGGATCGTGCTGGTAGTGGGTGTTTCGCTAGTGGCGCAACGCATCGC

Sequence 1712

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGGCCCGCCGGGCAGGTACGCGGGAGATAT
TTGCTGAACTCATAAGTTTATTTGGGTAACAAGAGTCAAAATGATATTGGTTAGCAAATA
AAAATTCAGGATACATATCCAAAAATGCTGTTTATGTAATTAATTTGGTGAAGTCTGTC
AAAAAACCANCTAGNTGCTTGTTGGGCCNNGTTGACTGCTGTGGTAAATTAAGTGATGCC
CTAGCAAACTAAAGACAGTGTGTCATGCCTTCCAAAAGGCCAGAGAGAGCTTCAGGAGAGA
ATAGGTCCATCCTCATGTAGCCGGGAGAAATGCAGAATGAAATTGCTCCCACTATTACTA
GTAAACCTTCAAATTTCAATTTACTGGGGCAGAGATAGTTCCGGTTTTAAGGAAATAATAG
AAAATCATGGTCTGAAAATCTCAAACCTGAAAG

Sequence 1713

ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCCGGCCCGCCGGGCAGGTACCAAAA
GAATGTTATAGCAGCATTATTTGTCATAGTCAAGAGCTGGAAGCAACCCAGTTGTACAT
CAATGGTAGAATGGATGACTAAATTGTAGTGTATTCTTACAATAAAATACTATAGAGCAA
TGAAAAATAAATAAATATGGCTTATATGCAAACAACATGGATAAATCTTACCAACAATGT
TANGACAAATGTAGCCAAACCAAAAAATACACATGTTCTATGAATCCATATATGCAAGGT
TCACAATAGGTGATAGTAGCTACTCTTTTGGGAAGGAGTGAGGAAAGGACTGAGAGAGTA
TTGCAGAGGGGGCTNCGGGTGTGTAATTTCTATTTCCCACTGCAGGTGTGGTTTGCAT
GAGCATGTTACCTTTGTGGAAATTCA

Sequence 1714

TCGACTACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGGCCGGCGTCACGCCACCCGAG

Table 1

CCGGA CTGGCTGCTGATGGATTATGCCGACCTGGTCAGTTCGGAAGCCTTCCGCGGCACC
GCCTTTGCCGCCGCGCTGCGCCAGCAGCTCGACACGCTCGAGCGCGAGCACCCGGGGCGC
GGCGTGGAGCAAGCGATCGACATGCTGCTGNCCGTGTTTGGCGCGCGCTGCAAAACCAAG
GGCGGCACGGCCCTGTTCTCGATGGACGCTGCTGACGGAATTCCTGGAACACCGACC
ACCA

Sequence 1715

TGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCACGGTACACCCTAGCTCCAGCTTCCCCTG
GGAGACTGTGCATCTCCTGGCTCCACTAACACCACCTTCTTCTGACCTTCCAGCCTAGAG
ATGATGACTCTGCCAGCCTAGATGGGCTCTGGGTTGTCTCCCTATTCTGNTTGCTTTGN
AGAATNTCCCATTTATGCTGNACCAACTCCCCAGCCTAAGCCCTCTCTATTTTAAATTCT
CAAGTGGATTATGTTCTGATTAGTCCCTGACTGATATACCACTCTCCTCATGATCTCTG
ATTAGTTTTCTGTTAGGTTGTTGCANTCNAAAAAAAAAAAAAAAAAAAGTGCCTT

Sequence 1716

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCCGAGCGGCCGCCCGGGCAGGTACCTCTCCC
CTGACCTCCTTTGGCTAAAGTGCCTTTCAGATTTTATTACTATTGTTAACATTTCCAACA
GCCATTTTAACATTATTTTACAAATTTGATGTGAATATTCCATATTAGAAATATGATTT
CAGAAGACAAAGAATTTGTTTGTGAAATGCTAAGGACTGAAGCTGACAGAAATAACATT
CCTGCTTACAATGAACTTTTGCACGTATAGTAGAAAACAGGAGCGTCCCTCAATGTGCTC
CTTACCCTATTGGCTGCATCTCCATGAGCCCCTGAGAAGGGAAATTAACACTACCTGCA
GAGGAGACAAGAGGCACCTGAGGACCCAGGAGGACCCACAATAAGTTGCTAAATGAAAC
ATCTGTTACATTTGTGTTAATTAGTAATATGTCTT

Sequence 1717

NATGCTCTCCGCACCAAGCCACAGATGTGGAGGAGGCAGGTAGGGGGTCAAAGAGGGGTG
GTATCGGTTATTCAGGACTTTTTTTTTTTTTTCTTAAATATCCTGTGCTTCTTTCAATCA
TTTGAAGGTAACCAAGTCCTGTGAGTGGTAAACTGATTTTTGGTTCTTATGAGGGTAT
TATTTTCTGTGTAGATATTTGTTAACTTGGTGTCTTGCAGGGTAAACGATCATCNAANC
TTTNTGTTCCACCATNTTGCTCCTCTCATTTTAGACCTAATATATTGACTATAANNGTTT
CCCTCTGGAAGTATTGACTATTNTTTGCATCAATACTAAAGAAAATAAAATATAATNAT
AGAGACTNAAACATATTAATATATATATAATGGGTGTTAACTAAATGGNTAATTTGAA

Sequence 1718

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTACAGGG
GACCCGCCAGGGGCCTCGAGAATCGGTATCCTGAGTCCTCCTGAAGAGCAGTAGAGGTTG
TTTCATTAAGTGCAACACATTGTTCTTAATTTGAAAACGTGGGCAGAAACAGAAGCCC
GAGACTAATTTTCCATTGCTAACTCTAGATTCTCGGCCACTGGAGTCTGAAGATACTCT
CTTTGAGAATGCATATTATTTGCTCACAGCTAAACATTTAAGTATCATAGCTGATCAG
TGGAGTGAGATTAAAGGTTTCTTTTTGAATCATCAGCTAGAGATGTACCT

Sequence 1719

CCGCGGTGGCGGCCGCCCGGGCAGGTACACACTCTGGATAATTAACGGCAGAAAGATAAA
CTGATTTTCTGCACATCTTCACTGCACTGCGAGCCCCAACACAGCACACACCTGCACCC
TCCCTGCCTTCTCACATAAAGCCCAGAGGGAACACCGGGCACCTTGGTGTCTTCTCAGAT
GCCCTGGAGCGTTTACACCAATGCAATAACAGAAGTTTTGATTTTCCAGATAAACAAA
TGGATTGTTTACAGCTACAGAAGCCCCCTCAGAGACTGCCAAATTTCTGTCTCATCCA
CCAACCTGCCTAGAAGAGAGAAGCTAGTGCCCTCTGCAAAACCTCCCACACTAGGGGGCT
GGTATAAGGGATGAAAAC TAGGGGGAGTCTCTTAAAGGGTGATCTTCTGCCAAATGAC
TTTACTTTTCCCTGAACCATAATC

Sequence 1720

GAGCTCCCCGCGNGGCGGCCCGAGGTACACTTTCAGACCAAAATGTAAATTTACAAAT
GTGTCTCAGTAAGAAAAGTTACAGAAGCTGGGCCGGCGCAGTGGCTCATGCCTGTAATC
CCAGCACTTTGGGAGGCTGAGGTGGGTGGATCACTTGAGGTCAGGAGTTCGAAACCAGCC

Table 1

TGGCCAACGTGGNGAAAACCCTGTCTCTACTAAAAATACAAAACTAGCCCCGGGAGTGG
TGGCGCACACCTCTAATCCCAGCTACTCAAGAGGCTGAGGTAGGAGAATCGCTGGAACCC
GGGAGGCGGAGGCTGCAGTGAGCCAAGATCGTGCCACTGCACTCCAGCCTGGGTGACAGA
GCAAGACTCTGGTAATACAGTCAAGCTGCTCCTGTCAGATGTATACTTCTGAATGAGCA
CTATAATGGATGCTGCTCAGGTTTCATCTATTAGTAAGTTGGAGCCTACTATATGCCAG
GCAC

Sequence 1721

ACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACCAGAACTTAA
GTATAATAATAAAAAATAAGTATTACAGAACATGGTCAATTATATTAAGTAGATTA
ATTAATGTCCATATATACATTTTTTGGTGGAAATCAAACATAATGAAACTATTTACAT
AATTAATATTTTGTATTTTTTACTTATTAATTNATTGCAGAGATGGGAGGCTTGCTA
TGTTGCCCAGGCTAGTCTCAAACCTCTGGCCTCAAGTAATCCTCCACCTCAATCCCCCA
AAATGCTGGGATTTTCAAGAACATGCCACTGCACTTTATTAGTGTTACCTGTCATAAAGTT
AATTACTCATAATTTTATTTTCAAGTATATATATACACACACACACCATAACACCATAG
TAGAATAAATTAATTATTTTTCTACAAAAATTATTTTCAATCTTTTTT

Sequence 1722

ACTNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCTGATTAGTTNAA
TATAAAGACTCCGTAATTTTTACAATTTTACAATAATTTTATTTCTTCAAGCTTGTTAG
NTNGGGATTGNATTAAGTACAGTGTGTGACTTANAAAATGATAATGCTGCTTTATGGA
AAATGGATTATAGGTGGGTAAGACTTTCNTTTGCAAAAATTTGGGNAATTACCCATCAGT
NGTTAGGAACCCAGNTGAAGTCTANANGACAGATGATAGTATCTTATACTAGGTTGGGCT

0

Sequence 1723

CACTACTTAGGGCGAATTGGAGCTCNC CGCGGTGGCGGCCGTCAGCCATTGCGCGAAGT
CGCTTCGGTCTCTTGCGAAATGGCATCGTAGCGCACGCACTGGAAATACGTGCCGTGCGC
CGGCAGCAGGCTGAAGCGGCTGCCCGCCAGGCCGTCGCGGAACAGGTGCGCTTGCGCTG
GTAAACGCGGGCAAAGTCCAAGGTAGGGCTTGCGGCTTGCCCATGTAGCCCGGCAATGC
CGTGCTGCATCGGCGTGTGACGGTAAACACGTTGACTGGTGCACCTTGCGAAATCCG
CCGTCAGGGCTGCGGGCGCCGCTACATAGCCAACCTTCCAGCCCGTCTTTGCGCAATGGT
GAGTAGTTGACCCATGGACGTATGCTAGAACCCGCATGGATGCAGGCTTTCAGATGTTTG
ATCAATGTCCATGGGAAAGTTCCCGATTTGACGCTCTT

Sequence 1724

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCACATTTTCTTGATTCC
TACAATCTATTCTTCTACAACAGCAACAGTAATTGTTTGAAATTATACATAAGACTTCA
TCACTATTTTGTTCAAAATTCTTAGGATTCTTCCCAATCTTTTAGGATAGGGCTCAATT
GCTTTATCATTGACTGCAAGGGCCCTGTGTCTCTGAACCTGCATACCTATCCAAGTTTA
TCTCCAACACTATCCCACTGTATTACCCTACTCTGTCTACAAAGTCTTTTCTGTTCTTTG
AACAAACAAAATTTATTCTTACCTGAGGGTCTTGATCCACACTCAGACCTTACTTGGTT
TTAGTTTTTCAGAAAGGCCACCAAGGGACCATCTATTTAAACAGTCCCCATGGTTAGAT
CCACCTCCGTCACCTTTTCTAGTGAGTTTTCACCA

Sequence 1725

GTNGGAGCGGCCGCCCGGGCAGGTTCTGAGTCAAGGACTTCTTTAACGTCATNNACGGCT
CCTAGGACAGCCACAGAAAAAATGGGGTAAAGGGGTAGGAAGAAAAAGGAAGGGAAAG
AGAGCCAGGGAATTGGGGAAGGAGAGGTAGGGGAAGGGGAAGGGG

Sequence 1726

CCGCGGTGGCGGCCGCCCGGGCAGGTACATGCCAGGCACAAGCTGGAGTCACAGATGCCA
CACTGACTATCACATTGTCATCATACTCAGAGAGAGAAAGGTGTATACCCAGTATTTT
CTTATGTTTTCTCTATACTTCCATATCCCCACCCCATTTATCCCCGAGACATTTCCAG
TTGGGAAGTCAGTTGCTTATGGGAACTGGCTGCAGGGGGATCAGCCCACCTGTAACACA

Table 1

CGGAAAGGCAGAGAAACAATGAGTCATGGATTTGAGTGCAAACAAGCCCAGTCCTGCTAC
AGAGAGTTACGGAAAAATCTCACTGTTGAAGAGAGACATCTATAAGAGAGGTGAGGAAAA
TGACTGATAGATCCTTTTACAATATTCTAGGGGTAGTCTGTCTGTGGGAGGGGGCAGGAG
TCTATGGGGAACCTCTCT

Sequence 1727

CCGCGGTGGCGGCCGAGGTACGCGGGGGATTTTTAGTAAAGTTTTGCCATGTTGGCCAGG
CTGATCTTGAACCTCTGCCCTCAAGTGATCTGCCACCTTGACCTCCCAAAGTGCTGGGA
TTACAGGTGTGAGCTACTGTGCTCAGCTCAGCCATGGAACAATCTTGATGGATAAATTTA
ATCTGCAGGTATCTCCATCTCTATTTGCCACTCTTAGTAAATGTTTTAGTTTGACAGTAA
ACGAGTTGAGACATTAATGATTGAGAGAGCACCTAAGCAGCTCGAAGTGCTGGGAGTCTC
TCCTAAAGAATTAGATGCACACAGCATTTTTCCCTTACAGACACTTCACTGAAGCAGTCA
TGTTGGACTTGGGTGGCGTCTGCTATTAGACACACTATTCACCAATAAAACCCTGAAAA
TGCATTGCACAG

Sequence 1728

CCGCGGTGGCGGCCGAGGTACTATTAAATTTAATGAGAGGTAACCCATGCACCGGCAGGA
AGTTCAAGGGGACAGAAGGGGGCTTGCTCCACTCTGGAGCCCTATCTCCTCTCACCTCCTT
CCTTCTAGTTTGACATGCGATCTTGCTCTCTCTTTTATAAAGTGCTTCCAGGCCCCCTT
GGATTAGGATGCTGTCTAAATCCTTCCTAAAGAGAGGTTTTGGAGCCACCAACTGCT
TCACTGTGGAATAAACTTTCCTTATTAAGATTCTTCATTCACTCATAATCATCTCCTTT
TCCTCACTGCTCATTCAATTTATGGAGATAGCACCCATATCATAGCTACTTGGTCAAATCA
TGGTGATACTCCCCACTTAGGAGAGGAAGATGACTAGGTTATAAGCTCTTGCCTTTAGGA
AATTA AAAACCCTGTGGGT

Sequence 1729

CCGCGGTGGCGGGCTGGATTCTTGACATTCATTAATATCTTGACAACTCAGCCCATCAGAG
GTTCTTCGAAAGCCACTTCCACAACGGACCACACAGCGATAAGATCCAATCGTATTGTCA
CAGTCCTGACCAGCGTGGCAGGTATGCCTACCCAAAGCACTCATCAATATCTTNGACA
AGTTCTTCCATCTGCAGCTATGGTGAGGCCTTTAGGGCAGGAGCAGTAGTAAGTCCCCAT
GGCATTGTGGCAGCTATGGGAGCAGGGATTCCCTGCTGCACATTCATCCTCATCAGCACA
AAAAGGTCCAACCTGAGTCTAAGGTAAACCCGAGGGGGCACTGATTCTGGCGATCTCCTT
GGATATTGAAGCATTGAATTT

Sequence 1730

TTCACTCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGGCCGAGGTACCAGGTTCAAATA
GTCAGCAGCTCATCATAATCAATGAGCGAGGACATAAAGTAGGAAAAATGCATCACCATG
GTGAGCAAGGAAAGCAAGTTATTGGAGGCACATGTTAACACATAAAATATAAAATTAATA
TGATCACACTGGAAAGGCTTGCTGAGCCCACAGTTTGAATGCCTACAATAAGATGAGAT
GCACAACANAAAGCAAGAGAACCTGATCAAGTGGGTGACCTGGCCATGGGTGCTCTCATC
AGTGGGGGGGACCCAAATGCTTATGTGGGACTCACCAGGTATCGAATTTANCCATTGATTA
GGGAGTGGTTTTGGTTGGTGGNTGGGCNAGGAAAACTTTTNTAATTCCAAATTGGAAAT
ACCAATTNGAAAACCTTTTAAAAAAAATTAATTTGNTNAGGANTTCTTTTACCACCCAA
GGCCCAAATTNGTCAATNTTTGGCCGTTACCCTTGCCC

Sequence 1731

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGGCCGCCGGGCAGGTACTGTTTCTTTAA
AAAGATTTGTATCTTGCTAGGTAATTAACAATGTTTACAATTAATATATTTATATTTAA
ATAGAGACAGGGTCTTGCTGTATAGCCAGGCATTCTTGAACCTCTGGCCTCAAGCAATC
TTCTTGCCCTTGCCCTTTCCAAAGTGCTAGGATTACAGGGTGTGAGCCAGTGTGCCCGGCC
CAATTAATACCATCTAAGTCATTGTCTAAGGAACTTTTCGTTTCTGTTTGTGTTGGGGCC
AGACTTTGGGAAGAAAGTATGTTTGATAAGAATTTATCAGATAACCCCTTTTTTTTTTTG
TAATATCTCTTTGGGATAGCATTGTCTTCTCTGCTTTGGGGAAGTCTTTTGGTTACTC
ATTACTCAAAATTTGCCAAATTTAGGGGTGGGTGGTGAATTTTGGC

Table 1

Sequence 1732

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGATTTT
GTAAAGTTTTGCCATGTTGCCAGGCTGATCTTGAACCTCGCCCTCAAGTGATCTGCCC
ACCTTGACCTCCCAAAGTGCTGGGATTACAGGTGTGAGCTACTGTGCTCAGCTCAGCCAT
GGAACAATCTTGATGGNTTAATTAATCTGCAGGTATCTCCATCTCTATTTGCCACTCTTA
GTAAATGTTTTAGTTTGACAGTAAACGAGTTGAGACATTAATGATTGAGAGAGCACCTAA
GCAGCTCGAAGTGCTGGGAGTCTCTCCTAAAGAATTAAGATGCACACAGCATTTTTCCCT
TACAGACACTTCACTGAGCAGTCATGTTGGACTTGGGTGGCCGTCTGCTATTAGACACAC
TATTCACCAATAAAAACCCCTGAAAATTGCATTGCACAGGACTG

Sequence 1733

CCGGGCAGGTACATGAAGGAGGGCACTANGGGGAGCTAANCAATTTGTGAGTTAGGTAGC
CAAGATTCGTTGAGGTTGGAAGAATGAGGAAAGAAAGGGGATCTGTGGCAAAAATATGCT

0

Sequence 1734

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTCATACTACTTTAAGT
TACCTCCTATTGGGGGCATTATAAATGGGTAAGCAGAGAACATCATGGAAAGACATGGAG
CTTAGTATATGCAAATGTTGAGTTACTCAGTGAATGTGTGAAAAAGGAGTTTCATAAGT
TTCCGTCAGGGAAAGAAAGGCAGGGTCAAAAATTTCTGCTTGAGAAGTTTTGGGGAGCTT
GGGGAGACTTTAAACAGGGAGCAACACAGCGCCTCTGTACCTGCCCCG

Sequence 1735

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTCATACTACTTTAA
GTTACCTCCTATTGGGGGCATTATAAATGGGTAAGCAGAGAACATCATGGAAAGACATGG
AGCTTAGTATATGCAAATGTTGAGTTACTCAGTGAATGTGTGAAAAAGGAGTTTCATAA
GTTTCGGTCAGGGAAGAAGGCAGGGTCAAAAATTTCTTCTGCTTGAGAAGTTTTNGGGAG
CTTGGGGAAGACTTTAAACAGGGAGCAACACAGCCGCCTCTGTACCTGCCCCG

Sequence 1736

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGACAGTTTTGAGCACCTGCCTT
GTGCCTCAATGAATACTTGTGGGTGATGAATGATATAAAATTCATCTTGACATTCAGCT
TAGGTTTGAAGACAGTGTATGATTTCTTACCATGGCCTTGACTCATCTTCTGAATGGT
CAGGCTAAGTGCTGCCTCCTTCTGTGTAGCCTATTCAGGCACCTGCTCACCTACCACA
ACCTGCCAGGCCCCCTCCAGCTCTGGAAGCATGCTATGTGAGAAATAATCCTAATATCCAA
GTCACAGACAGTGGGTGGGCTTGAAGTGCAGGGCCTGTGATCCCTTTGTGGAGTAGCTG
AATTTAAGAAGTTGACAGCAATTGTGTTCTATAATGAGAATGGTCCTGATCATCATGGAG
GAATAATAGCTGCCTTTTATTGAGAACTGTGAGGTACCTGCCCCG

Sequence 1737

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGATCAAACATCTTGT
TATACTTTGTAAACATTTTCTTTTTTAAACCCAGTTCAGCCGGACGCCCCCAGACCT
CTGAGGTTGAGGAGGTGGTGGTTTTCATTTGGGGCTTGCATATTTGGTTGTTAGGTTT
TGCGAGANCCTTTTNATTTNGCCCAGACGCTTATGATGCGCGNGGTGAAANTTNCACCTC
GGGCNCCCCCTCCCCTGGAGNTCTTTTGTGTGCCGCGNGGAANTTCAGTGGAAGATCCGGTT
TACTNAGCGATATAGGAGGGATNTATANCTNNNNANTTCNNNNNTTAANTNTATTTGTTT
CTTGCCCGGNGNCGNGCACNCNTNNACTGCCCCGCTT

Sequence 1738

AATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGATCAAACATCTTGTTATACTTT
GTAAACATTTTCTTTTTTAAACCCAGTTCAGCCGGACGCCCCCAGACCTCTGAGGTT
CGAGGAGGTGGTGGTTTTCATTTGGGGCTTGCATATTTGGTTGTTAGGTTTTCGAGAG
CCTTCTTTATTTTGGCAGACGCTCTCAATGCGGGGTGAAGTCCACTCGGCCCCCTCCCCT
GAGTCTTCCGTGTGCGCGGAATTCGAGGAGATCCGGTTACTAAGGATATAGAGGAAAAA
AAAAAANTTAAAAATTAATAAAGGTACCTGCC

Table 1

Sequence 1739

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGTATGATGGAAG
GAAGAACTTGTGTGCTTAGACCTGACGCTGGGAGGAGATGCTGCCACCTAGGTACTTGT
AGGACCCCTATACGGCAACCTCCTTTGCCAGGAACCTATTTATAAACATCCTGCAGGAAAAAT
GCAGTGAAGTAGAAGAAGACAGGGGATATCCAGAAGTTATGCAAAACATCAAGAGAAG
ATGAGAGGAGTCTATATGTCAGAATACACATTTCCAC

Sequence 1740

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAACATACAGTTAAGCTA
CTTAAGTTGTAGTGACTTAGGACTTAATTATCTTATAGGATAAAATAAAAACTTTAATCC
TAAACATTAGCCATTGCATTAAATGCTTTAAAGGAACAACCTGGCTTTGAGCTCTGTTTCAT
CCATGCAAGGATTATACAATCTCAGTGCTCTAGCTAAATTGCTAATGTTTTATTACTAAT
GCACTGGTAAGCCTCTCATAGAAGATGGGTCTCTGGATTTACACTGAAATATAACTTTT
CTCTTCCATATTATTGGAAGACCTTATTCTTCAGGCAGGAGCTTAGAAAAGTCTAAATTAT
GCACCAGAGCCTTAATTATCTGATGGCAAAACCACGATACTCTGGTCACTACTACCAAT
TGACAATNAGAGGACCCCAATTAATAAACTCTAGAAATATTGAGTCTGAATACCAG

Sequence 1741

GGAGCTCCCCGCGGTGGCGGCCGCCGCGGCAGGTACGAAAGATGATATACATGAAATGA
CTTGAAAATTCGTTTCTCTACTTTTTTTTTAATGTAACACAAAGTAAATGAGAATCTGAG
TATTTTATCAAGTTGTTTCAATGAAGACAGAGTTGATTGAGAAGGTAATTCAGATTGG
ATGGTATGAGTTTCCGGCAAGATTAGAGAAAGAGTTTTCTATGTAATAACTGATATTTG
TTCACATGCTTCTCTTGATGGCTCATCAGGATTTAGAGATAGAAAGGACATNTTATCC
AACCCTTTTCAATTTCTTAAAGAAATTGGGGACCGGGCGCAGTGACTCATGCCTGTATTT
CCAGCACTTCGGGAGGCCGAGGCAGGTGGATCCTAGGTCAGGAGTTCAAGACCAGCCTGG
GTCAAGAATGATGAAACCCCCGTCTCTACCAAAAAA

Sequence 1742

GGCGGCCGCCCGGGCAGGTACAGTTACAACCTGACTTGCATAACACTAAAGAAAACATTGT
AATTCCTACGCCAGTAGTGGGGGTAAACTGAGAACCAACCTAATTTTCAACACAGGGCCC
TCTGGAAATAGAGGAACTAAAATGATGACTGNTTGAAAGTGAAAGAGGGCAGATTCTAA
GAACATCACTCCTACTGCATTCTTACCTCCACTCCATACCTTTCTTCTTCACTCAGG
TAGGACTGTCTCTGGAATGCATGACAGCATGCACAGTTGAGAGCTTGGATGTGATCCTGG
AAATGGGCTTAGATGACCTTATGAACACTGAATGCTGATTGCAGACACTCTCAACCTTCT
TCCTCTAGTTGACTTCTATGGCTGTGCCAGCCAGTCCTAGACCCTTCTAGAAGAACTA
GGATGATACATTTT

Sequence 1743

AGGTACTTACAGTTTGACTTTGAGTCAGCTCAGCATTCTAAATCAAACGCAAACAGCAGA
ATCATATGGCATANACACTTAGCAAATCCAATGCCTTCCAGGCATCTTGTTTCTGTTGA
TGAAATCCCTCCCTATGGAGAGCAAACCTGGTTCATATCTTCANATANTGTCATTCAACCCC
TTGGGCAACCTTTTCTTGGGGCTAACTAAAATATTNCGGCACCCCGGTTTCTTGGGTTGG
GGACCAATTTTCAACCCCCNAAGGTTTGNTTTCANTTTTTATTTTAAGATTTTTTCTTG
GGGCCTTTCNGTTGGGGAAGNAAAAATTAATTCCTGGCCNCTTTTCTTTCTTGGAAG
GTNATTTGGANTCTTCTNCAATTTGGGNGGCCNGCCCAATTGGGNTTGAAAAANAAA
TAATTTCCGGCCCCCTTGGGTTATNCATTAACCCCCCCCCGGCCGTTTAACCCCTTGG
CCCCCNGNGGGNCCGGGGTCCCCGGGCTTTCTTAAGNAAAAACNTTAATGNTTNGNGN
AATTCACCCCGGGGGGNCNTTGGCNANGGAAAAATTTTNNGAANTNATTCCAAAAA
GGCCTTTTATTTNCAATANANCCNGTTCCGNACCCCTTTCGGNAGGGGGGGGGGGGG

Sequence 1744

ACAAGGTCTCACTATGTTGCTCAGGCTGATCTTGAACCTCCTGGGCTCAAGGGATCCTCCT
CGCTCGGCCCCCCCAGAGTGCTGGGATTACAGGTGTAAGCCACCACACCAGCCAACATT

0

Table 1

CTTATTTTTATGCTTCCTTTGTAAATATAGTGGAGAAAAAAATCACTGTATTAGGATT
 CTCACCAAGGGCAAGATAGTCATATGAAATAGTCCTTAGCTTCTTTAGTTGCTTGAATAT
 TACCTCCCTGGTCTGTGAGGTATCTTTTGTTCANATCATTTCTCAAAGAAACACATT
 ATTGGTTAATATNATTGGTCACCTTTTGAAGTTGGGTCCTATATGCTGATTCCGGGTAGC
 CCCAGACTTTCAA

Sequence 1745

AGGTACAGTGGCGCCATCTCTGCTCACTGCAAGCTCCNTTCTCCCAGGTTTCATGCCATTC
 TCCTGCCTCAGCCTCCCAAGTAAGTGGGACTACAGCCGCCAGCCACCATGCCTGGCTAAT
 TTTTGTATCTTTGGTAGGGACGGGGTTTCTCCATGTTAGCCAGGATGGTCTAGAGCTCC
 CAACTTCAGGTGAGCCACCATGCCTGGCAGGACTTTTTTGTATGTAAGCAGAGCCCCCTT
 TGCCAGCTTCCTTGGGCTTATCCCCCATAGATGGCAGCTGGGATCCAGCCTCTTGCCG
 GTTGATATTGTCATTCTTGGAGGGGGCCAGGTTGGGGCTAATGCTCGTGTGACTAGAGC
 TTGCTGGTGTGAGGGTGGTTCATCTGAAGTTCATGACCACTAGGCTTTGATCTAAAAA

A

Sequence 1746

ATACTTAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGGCTTTGCTCCAGGCCTCAGGAG
 TGTAAGTTTAAAGGGCGCGAACCTGGGTGGGACGGGGCAGTTTTTCCAGCGGGCCATACG
 GGAAAATTTTTGGTTCGAGGAAGACAACCACTTTTAAAGGAGAAAACTGCATCTTGCC
 CTGCGTTATTCTACGCGGTGCCAGGTGGGGTGTGTGTGGACCAAGTCAATGACCGCCC
 AAGCTCTCCGAGTAGAAAACCAACATGGTTTTGTGGGGTGTGTGCCTTTGACCCCGGA
 CTTAAGCAAAAAGCGTGGTCTTGGCGTAGCTACNAGGTGGGTGGTGGGGCTTCCAAGG
 CCCTGCGTGCCCCCTCGACGTTGAACCGATGATTTGGGCGGGTGCCAAGGATAAACAAGAT
 TCGCCCCCTTCTTTNGCCCACTTCAATTGGGCAAGGGGGGACCTTTGCTTACTTTTCCCG

Sequence 1747

CCGCGGTGGCGGCCCGCCGGGCAGGTACAGCTGGACAGGGATATAAATCAGTGAACCTCTG
 AGAACACTTTTAAATCCAAGCACCAATAAGGCAGCATTTCTGTGACTGCTGGACGCCAC
 GGTTTAAGTGAGATGCCAAACATTCCTCATTTGGGAAAATGCGCAATAGTCCACAGAGAG
 AACAAAATCAAAATGTGAAAAGTTGAATAAAAAACACTCCTTTGGAAATAAAATATTACT
 CAGCATAAGTTAGCTGACCTCATCTTGGGACTAGAAAAATAACAGTAAATAGTAATAAT
 AGCTCCCGCGTACCT

Sequence 1748

AGGTACATCTCTAGCTGATGATTCAAAAAAGAAACCTTTTAAATCTCACTCCACTGATCAG
 CTATGATACTTAAATGTTTTAGCTGTGAGCAAAATAATATGCATTCTCAAAGAGAGTATC
 TTCAGACTCCAGTGGCCGAGAATCTAGAGTTAGCAATGGAAAAATTAGTCTCGGGCTTCT
 GTTTCTGCCACAGTTTTCAAATTAAGAACAATGTGTTTGCACTTAATGAAACAACCTCT
 ACTGCTCTTCAAGAGGACTCAGGATACCGATTCTCGAGGCCCCCTGGGCGGTCCCCTGTAA
 GTACCTGCCCCG

Sequence 1749

AGGTACATCTNTAGCTGATGATTCAAAAAANAAACCNNTTAAATTTANTTCNNNTNNNCNA
 NTTTTAANCCTAAAATGGTTTAACTGTGAACCAAAATAATATGCATTCTNAAAGAAGAG
 TATCTTCAGACTCCAGTGGGCCCCGAGAATCTAGAGTTAAGCAATGGGAAAAATTAAGTCT
 CGGGCTTCTGTTCTGCCACAGTTTTCAAATTAAGAACAATGTGTTTGCACTTAATGAA
 ACAACCTCTACTGCTCTTCAAGAGGACTCAGGATACCGATTCTCGAGGCCCCCTGGGCGGT
 CCCCTGTAAGTACCTGCCCGG

Sequence 1750

TNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGCAGATAACTTATC
 CAAGGACAAATAGAAAGGGGACTGTGTCTAGAGGGTAATGCTAATGCCTGGCATGCTATA
 AAAATAATGAAATCTGATTAACACTATTGGAGGGAAGAATAAGTCATCGTTTCTATGGA
 ATATTATTTCTGATTGGAACCATTTCCATTTTCGTCAGCTTAAACATTGCATTAAAG

Table 1

ATGAGATGACTTTAAAACGGTGACAGCTATCTCAAGCCCTGTGATTATAAATGGTGTAT
AGGCTTGTAACTCCTATGGGTTAGACTAAAGTATTTTCTTCATAAATTGAAAGAGAAACA
CACTAGGAATTCAGAAGATTTTAATTAAGTTGTTCAAAAAATTTAATGGGAATTTAAAG
GCTGGCTCACTAAGTAGTTTTGATAATGAATTTAATTTATAGAAGAAAGTTCTTGGC

Sequence 1751

CACTNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAAAAG
AATGTTCATAGCAGCATTATTTGTCATAGTCAAGAGCTGGAAGCAACCCAGTTGTGCATC
AATGGTAGAATGGATGACTAAATTGTAGTGTATTCTTACAATAAAATACTATAGAGCAAT
GAAAATAAATAAATATGGCTATATCCACCAACATGGATAAATCTTACCAACAATGTTA
GACAAATGTAGCCAAACCAAAAAATACACATGTTCTATGAATCCATATATGCAAGGTTCA
CAATAGGTGATAGTAGCTACTCTTTTGGGAAGGAGTGAGGAAAGGACTGAGAGAGTATTG
CAGAGGGGGCTCCGGGTGTTTGTAAATTTCTATTTCCAGTGCAGGTGTGGTTTGCATGAG
CATGTTCACTTTGTGGAAATTCATTGAGCTGTAATAATATACAGAATTATTTATGAAT
GAAATG

Sequence 1752

ACCACTGCTTTCCCGGACTCTGCGTTGTTACCACTGCTTCCCGGGACTCTGCGTTGTTAC
CACTGCTTCCCGGGACTCTGCGTTGTTACCACTGCTTCCCGCGTCCT

Sequence 1753

CAATCTGTTCTGCTCACCAGCGAGTTGTTTCGAGTTCATCGAAGACGGACACGGCGGCCAC
CTGCTGAGAGTGGGGACCTCTAAATTTCCGGTCGGCACGCTGCGGTTCCCGGCCAT

Sequence 1754

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTAATCACTGTTCCCCAG
CCTGCCAGATAAAAAATAAATGTCCACTCCAGGAGGGGAGAGGCACAAGCTGCTCTGATA
GAAACCGTTCCTGAGCATTATCTTGACTGTTTGCAGAGGAGACATGTGTTCCAGCCAGC
ACAGAGCTGCAGGATTGCCCTTTGCGATTGTGAGAATTATGTCATAGTGAAATATAGTT
GAGAATGCTGGGCAGTACCTGCCCCG

Sequence 1755

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTAATGTTGCTGCTTTT
CTTGAGTTTCATTTGTCTTTCCAATGATCGTATATGATTGAATAGTAGAGAAGGCACCTGC
AAGTAGAAGCCAATGGCAAAAGATTGATAAGCATCTTTCCTGGACTCTGGTGCTTCGGGG
GTGCCAATAACTGCACTCTGAGTAATCCTGGGTCACTTTTCATCAATTGAGAGAGTTTAAG
TCAGGGGACTTATGATTTCTTTCTCAACAAGACCAGGTGAACGTGTTTTGCAATTCTAA
GTATTATTTGCAAAATAAATAGCCATATATCTCTAAAGCTTCCTGAGCAACAACAGAGG
TACCTGCCCCG

Sequence 1756

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGTTATGGCTGAGTGTTT
CAATTAATAAATAACATTGCATGACAAATTTCTGTTTCACAAAGAGAAACAGCATTTTTGA
AAAATTGAATTCTCCTGTGTAACTGGTAGAGTTTTCTATTCTGAATATACATCCTTTC
ATAGATATTACTAGCAGGCTAAACATCTGGCATTTAATGTCATTACTATAAATAAACCA
CAAAATTGGCTGCCTGATTTGAAGGGTCAATCTTATGGAGTAATGAAGAAGATCATTT
TTAAAGGAGATGAGCAGTTTGGATTATGATACCAATAATTTCTCTCTTAAAGGAATC
CAACTCACTTAATTTAATGTTAAGAATAAAATCAGACTAATTAGTTCTCAGGACAGGTCA
ATGGCACACCATTTTCTTTTCACTTTGGCAGAAACCTAGGAGTCACTT

Sequence 1757

CTATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGC
GGGTGAGATTCTGCTGGGTGAAGCCTAAGGGCATAGATGAAAAGTTAGGATTTGGAAGGG
AGCCAGAAGCCAAAAGCAGTTCCAGAGGGCCAGGCCAAAACAGAAGCTGAGTGTGGGACT
GAAGCCAAAAAGCGGAAGATGATGAATTCACAGCGAACCGTGGGAGCCGCTCTGGAACA
ATGCCTGAGATGCGCGCTGGCTTTCTGGGAGCAGTTAGGGCCCCCTTAGGTATGTGAACC

CGCCTCACTAAATGGCCATGAGCAGAACTGAACTGCCTACCTGTTTCTCCACCTGTGCAA
GACCAAGTTTTCTTAAGAANCCAGACGAANGCTTCCTTTGAAAATNATACCGTTGCCAT
TTGGCTTGGCCCCCTTTGGCCTTAAAGCCTTAACAGGTTTANGGACTTTGGGCCCTGGG
TTAAATTT

TACGACTCCTATAGGGCENNATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACTTATAGT
TGAGAGCCAAAGTCTCCCTTATNATTGGTGAATGAGAATGAGCTACTGAAAACAAAAAGAG
GGTCTTCTACTCAGCCTCTACCCCTAATATTTATATCAGAAGCAGAGATTAACTGTCCTT
ACTCATTACACGTTAATGGAAGAAGAAGGGAAGTTTCTAGAAAAATCCTCCCGCTCCA
CCCTGCAAACTTTATGCTTTTCTGTTACATAATCAGGCAGGGACAAGACCTAAACTATTT
TGAATTGGTGGTGTGAGGCTAAATTCTCTGCTATTGACAGAATTGAGAATGTGATCAAT
TTCAGAGTAGCATGTTACAAATTTTGTCCCAATTTCAATGGGGAGAATTATAACAAATCA
GTAGTGGTTGGGAAGAATCTGTTCTTACTTTCTCCCATCCAGTTGACTAGGGATTG
AAA

TGGGCCGCTTTTCCGCTTCTCGCTTAAGTACTGCTGCGGCTTCGGGTCGTTTNG
 GCTTGCNCGCGAGCGGGTATCAGCTTCACTCAAAGGGCGGGTAATACCGGTTATCCACA
 GAATCAN

CTNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAGGATGAAATGAGT
GATTCTGTCCTTAACAACTCCTAGTCTCGTGGGGTGGACAGCTGGGAACTCATTTAGAG
AGATTACAAGGATGAATACCTTTGGGCTCGATAGAGGTAGAAGCAAAGTGCTTAGTGTTA
GAGAGCGTTTCTTGAGGAGGGGAAAATCAGAATCAGTCTGGGTTTTAGGAAGATAATTCTG
GAGGTTGAGTGAAAGATGAATGGAGAGGTGATAGACTAGCTTGGGCATTATGGAGATGGA
AGGAAACGCGAAGGGGCGAGATAGGACAATAATTGGAGGCCGGAGTGAGAGGAAGGGGCC
ATAGATGAGCTTCATGATTTCTGTCCTGTTGCAATAAAGGGATCATGATCGTAAAGATCA
TTCCCATTTGACAAAGGGAAGA

GACTACTTAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGGGGCGGTATCGAGAGTGTG
CAGCGTCAGACGGGACATGGGGTACCTTGCTAAGTTGGTAAGTCACCCGGCCATTATATC
GGCCATATCGCGCACGCAACAGACGTCAGCGTCGTCCTTTGTGCTCGTTCGTCTGTGAT
TGTGCGATCCTTGATTCCGGCAGGCTCTTAGCTGGCCAGCTGGCGCAATTTCTGGTCGCG
CCGCTAGGCCCCCTGGTTGCTCGCCCGTGACCCGCTTGAAGGCGCGTGTAAGGCCGGCGCT
GCGAGCGGTAACCCACCGATT

CCGCGGTGGCGGCCGGGGGCCATTGAGACTGCCATGGAAGACTTGAAAGGTCACGTAGCT
GAGACTTCTGGAGAGACCATTCAAGGCTTCTGGCTCTTGACAAAGATAGACCACTGGAAC
AATTGAGAAGGAGAGAATTCTACTGGTC

[illegible]

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Table 1

CAGAGGGGTCTGTCACATAGATGCCTTTCACAGCTGGAAGTGGCAGAGCAGTTGGGTGAC
CCTACCCAAAGGAAAGATAGATGTGTTCTGGCCAGTGCAGGGGTGAGATGTGAGCACAG
CTGCATGGCCATGCTGCTGTCTTGGGTCTTTGTGCGAGGGGATTGAGAAGTTAGACAGA
GGTCATTGCCCAGATCAGTTCCAGTGCTACATGATGCTGGTGGTCATGACTTGCAAGGGT
GGTTCCTGGGCCATCAGTGAGAATAACACAGGGAGTCCCTCTCTAGGTCTCAGTGAGAG
ACAGTCTCTGAGGCCCTGGCTTCTGAGCCGGATATTCTCTGATGGGTACCT

Sequence 1765

CCGCGGTGGCGGCCCGCCGGGCAGGTACGAGTAACTACTTGAAGGCAATTCTGTGCT
TAAATGGCCACGTGAAAGGTGTCCCTGACATGGAAAGGACAAACCATGAAATGACCCTT
GAAGCTCTTAAGGTGTCTGTCAAAAAACAAAGCCAACTGTCAAAGTGAAGGCCAAAT
CATCACAAAAACACCTATTCTTCAGAGGCCCTCAAATCTCAAAGTATCTCCACCATCCTT
TGTAAGTATGTATAAGGAGGCCAGGAACTAGCATTGTGAGACTTTATTCTCAGCTTT
GTATGCTTTGCATAAATGATGTCATAGAACACATTGACAGTGAGAAAACCTAACGTATTA
CATTTTAATTACCTTGCCCTATCACAAAGATTAGAAAGATTCAAGATATGAGACATCCAA
GTCTGTGATCTGAACACCAGAGTCAGAGGCTGGCAACCTATGGCCACGGGCTGAATCTG
GCCACTGCCTGTTCTATAAAATAAAGTTTATTGGA

Sequence 1766

CCGCGGTGGCGGCCGAGGTACTAGGATTGCAGGCATGAGCCACCATGCCAGACTAATTC
CTGTTTTCAATTTTAGGTAGTCATTTGATTATTGAGTTGTAGAAATCTTACTTTTGGATT
AATATATTAACAACTATCACCAAGTATGCCATGTGTTAACTGCTTAGTTTTCAACCAAC
TTCAATCATCAGCCAGCCCTCACTTCAGCCAGATCGACGGACTCAACGCTTGGTGATC
GGTTAACTCCTTGTTTTTAGCTAATGCTTAATTAGCAATTACCATCTTTGTCTTCAGC
TAAACATCATACTTCTCAATGCTTTGGTTATCAGCTAATGTCTTCTTTTCAGCTAACAC
CTTAGTGGACATTAATACCTTGTTAACGTATGTTACTTCAACCAGATTAGACCTGGCTG
CATTGGGAAAGGAAAGTGGGGGGCTTGACAAGG

Sequence 1767

AGGTACTTACAGTTTGACTTTGAGTCAGCTCAGCATTCTAAATCAAACGCAAACAGCAGA
ATCATATGGCATAGACACTTAGCAAATAGTTTGACTTTGAGTCAGCTCAGCATTCTAAAT
CAAACGCAAACAGCAGAATCATATGGCATAGACACTTAGCAAATAGGCAAGCGTCTCTGC
ATCCCAGAGCAAATCCTCTGAGATCCTCAGTCTCTCCTGCTGAAACTTCATCTTCCACTC
CTGCCCTTGGGTCAATTTCCAAACGGCAGGGCACCAGACACGCTCTACCTTATGTGGAGCC
ATACTGTTCAATTTATTAGTTTTCTGGCTTCGTGGAGAATTATCTGCCTTCTCTGAGTATT
GATTCATTGTGCCCCCGCGTACCTGCCCCG

Sequence 1768

GCTTGAACAAATCCACCTTCTGTGGACCAAGCACCACCCTGGGCATTTCTAGCATGAGCA
AAATCCAAGGTCTGGCTGGACTCCAGAGATGCTATTTACCTCAGAAGCATGACAATAGG
AGGCAGAAGGAGCAGGCAAATCCAAGTCTTTCTGTAGTTTCCTTGTTGGGGAGGAAA
AGTTGAGTTTTACTATTATGAAAAGAAACAGGAAATAGAGACAGACAAAGAGATATGAC
AATACAGTCTGCCCACCCAGATACTCATTTCCACCCACCATTCCATGCATTTGTTTTGAA
TATATAAGTATGTACCTGCCG

Sequence 1769

CCGGGCAGGTACGTGCTAAGTTGAAAAGGAGCCTCAGATTTCTCTGACCTACCTCTTAC
CCTGTGCTGTCTCTCCCAGGATTTCTGAAGTTCCTTGCTGCTGAAGTCCAGACCTG
CCTCTCCACATCTGTGGCTTGGTGGGAGAGCATCTCTGGGCACTGGAGGAACGGTACC
T

Sequence 1770

CCGCGGTGGCGGCCGAGGTACATGTGAATGGGAAACATTATAAGTTCCTATTTGCCAAG
GGCATGTAAATGTGATAAAGCGGATCCGAAGACACATGGGAGTGAGACTAGGAAAGTATT
AAGAACATGGGCCCTTGACCGGGCGCAGTGGCTTACGCCTGTAATCCTACCACTTTGGGAG

Table 1

GCCGAGGCTGGTGGATCACAAGGTCAAGAGTTCGAGACTAGCCTAGCTAAGATGGTAAAA
CCCCGTTTCTAAAAATTAGCTGGGCACAGTGGCGGGCACCTGTAATCCCAGCTACTTGGG
AGGCTGGGGTCACTTGAACCCCTGGAGGCGGAGGTTGCAGTAAGCTGAGATCACGCCACTG
CACTCTAGCCTAGGTGACAGAGCAAGACTCTGTCAAAAAAAAAAATAATAAAAAAGAA
TGTGGGC

Sequence 1771

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCGCGGTTTTTAAATCTGTCACT
GTTCTTCCCCCACTTCAAAGCTGACTTGACAACCTGCATTTATTTACATTGCAATTGCTG
CAGGTTAATAATATTGTTTTATCAGGAAACATTTATCTTGAGGAAGAAAGTTATCCTAAT
ACNGCAAGATTACCTNATCCCANGGNCAAANTAGAAAGGGGACTGTGTCTAGAGGGTAAT
GCTAATGCCTGGCATGCTATAAAAAATAAATGAAATCTGATTAACACTATTGGAGGGAAGA
ATAAGTCATCGTTTCTATGAAATATTATGTTTCCTGATTGGAACCATTTTTCCATTTTCCG
TCAGCTTAAAAACATTGCATTTAAAGGATTGAGATGACTTTAA

Sequence 1772

TNNNCCNTCNGTCCTTTTNGGTTTGCNGCCGAGGCGGTNTTCAAGCTCACNTCAAAGGGC
CGGGTTAATACCGGTTTATTCCACAAGAAATCAGGGGGATAACCGCAGGAAAGAACATTG
T

Sequence 1773

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAACCTTGACAGTTTATAAAAAAT
GCTAACCTATATCAACATTTTCCCCACCAAAGTGTCCCAAGGGCAAAGGTAAGTGAAT
ACATGTTTCCATGCTTGTGTGTCAGGGGACACAGCAAGGGAAGGCAGAAATGGGCATGACCT
ANATTNNANNCCNNAAGCCTTCAAANTTCTTTATTAAGAACTTGGGGACTGCATCTTT
AAAATAATATGGGTTTTNTTTATTCTTTGATAATAAAAAAGAATGGAACCAAATCCTGGG
TTGTCTGATTCTTTGCCANTGCNTCTTTCTNATGTCTAACACTGCCTCGTCTTATGAAT
AACNTCTGNACATNTACAGAGGAAAGGACTTATTTGNNTT

Sequence 1774

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCCGGCCGCCCGGGCAGGTACACTTATAGT
TGAGAGCCAAAGTCTCCCTTATCATTGGTGAATGAGAATGAGCTACTGAAAACAAAAAGAG
GGTCTTCTACTCAGCCTCTACCCCTAATATTTATATCAGAAGCAGAGATTAAGTGTCTT
ACTCATTACACCNTNATTGGAANAAGGGAAGGTTTCTAGAAAAATCCTCCCGCT
CCACCCTGCAAACTTTATGCTTTTCTGTTACATAATCAGGCAGGGGCAAGACCTAAACTA
TTTTGAATTGGTGGTGTGAGGCTAAATCTCTGCTATTGACAGAATTGAGAATGGTGAT
CAATTTCCAGAGTAGCCATGTTACAAATTTGTCCCAATTTCAATG

Sequence 1775

CCGCGGTGGCGGCCGAGGTACTTACAGTTTGACTTTGAGTCAGCTCAGCATTCTAAATCA
AACGCAAACAGCAGAATCATATGGCATCGACACTTAGCAAATCCAATGCCTTCCAGGCAT
CTGTTTCCTGTTGATGAAATCCTCCCTATGGAGAGCAAACCTGGTTCATATCTTCAGATAG
TGTCATTCAACCCCTTGGCAGCTTCTGGGCTACTAAATATCACACCGTCTGCTGGGACA
TTTCAACCAAGTTGTTCAATTTATTAGTTTCTGGCTTCGTGGAGAATTATCTGCCTTCTC
TGAGTATTGATTTCAATTGTGCGCATGGTGAAGATATCGCCTGT

Sequence 1776

CGAGGTACGCACTTGTGTGCNTTCTGTTGGGTATATAACAAGTATGATAITGCTGGGTG
TTAAATATTTATATATTAACCTTAAATGCTGCCTAAGAATTTTTCAAGTGGTTGCG
CTATTTTACCTTACCAGCNCNTAGNTGTTCCATATCCTTGCTGTNACTTGGCATNATCTG
TATTTTTTATTTGACCAGACTGGTCTGTGTGTCATAGTATCCATTGTCATTTTAAAGTT
GCATGCCTTTGATGAAGACATTTTCTGATGCTTAATTGGCTCTTNGAATATATTCTGTAA
CTGATTTGTAGGAGTCCNNTATATATTCTGGATATAAGNTTTTTTATTGGACATAAATA
TTGCANATATCCCTCTCCCACTTTAACTTGCCTTTT

Sequence 1777

Table 1

ACTNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGTA
TTCTGAAAAATCTATCTCTAGAATGAAGTCATGACAGTTCACCCTACTCTACTAGTTTTG
TCCAAGCTAATTTTCATGTATGATTTTGTAATCTGATTGAACAATACTTGAAAAA
AGTTAGATATATAAATGAATTTGTTGGGGGATAAAACATAAATTAAGCCTATCCCTATAA
AATCTACTCTTTCTGACTTCCAGGAGTGGTCCTTTATTTGAGAGGCAAAACATATACAT
TTCACATTACCATTTTTGAGACTTGATGAAGCCAGTCCTAACTGTGGCTGAGGCTAAG
GCTGAATGGTTGGGATTTACTGTGAGAATGGACATTCTCCCGGGTCCTCACCTGAGGTCA
TTAAATTGATTTAGTCTAGGTCCACTGGTTGATTTT

Sequence 1778

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAGGGAGA
CAGCATGCAGGGTGTGTTTCAAGAGCTTGCTGAGGTGCTCGGCTCTTAGCATTAAAAAT
GTGATGTTGGTATATCATCTGATAGAAAACACTGCTTTCCAAATCCTAGTCACTGGATG
GGAGGAAAGTAAGAACAGATTCTTTCAACCCTACTGATTTGTTATAATTCTCCCCATTG
AAATTGGGACAAAAATTTGTAACATGCTACTCTGAAATTGATCACATTCTCAGTTCTGTCA
ATAGCAGAGAATTTAGCCTCAACACCACCAATTCAAATAGTTTAGGTCTTGCCCCCTGCC
TGATTATGTAAACAGAAAAGCATTAAAGTTTGAGGGTGGAGCGGGAGGATTTTCTAGGA
AACTTCCTTCTCTTCCATTAACTGTGAATGAGTA

Sequence 1779

CTACTTAGGGCGAATTGGAGCTCACC GCGGTGGCGGCCGCCGGTCCGGCGCATCCATGGCGA
ACAGGCAGACGAACGCGCCTTGCTGCGCGCTGCTGGCGGTGGCGCCCTGCGGCGCCAGCA
CCGTGAATTGTGGCGCCGTCAACAGTTGCAGCAGCGGCTTGGCATCGGTGCGCAGCACGC
GGCGCGGCTGGCGGCGCGGGCCCNCGCGCCGANCAATGGCGGGCCTGNAGTTCCAATNGG
CAAGGGTGCGCGCGCGGCNN

Sequence 1780

CCGGGCAGGTACAGCACCTTGTGTCTGTCACCAGCCGGCTGTGAACTGGTACGCGGGG
TAGATGGAAGGAAGAACTTGTGTGCTTAGACCTGACGCTGGGAGGAGATGCTGCCACCTA
GGTTACTTGTAGGACCCTATACGGCAACCTCCTTTGCCAGGAACTATTTATAAACATCCT
GCAGGAAAATGCAGTGAAGTAGAAGAGACAGGGATATCCAGAAGGTTATGCAAAACATC
AAGAGAAGATGAGAGGTCAGAGATGGGAAGAAACAAGAACTTTGACATGCTTGGTGTCT
TGCCCAAGCTTTGAAGAAGTTACAAAGTCTATATGTCAGAATACACATTTCCACCTTG
CCCA

Sequence 1781

TNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCGCGGTTTTTAAATC
TGCTACTGTTCTTCCCCACTTCAAAGCTGACTTGACAACATGATTTATTTACATTGCA
ATTGCTGCAGGTTAATAATATTGTTTTATCAGGAAACATTTATCTTGAGGAAGAAAGTTA
TCCTAATACAGCAGATAACTTATCCAAGGGCCAAATAGAAAGGGGACTGTGTCTAGAGGG
TAATGCTAATGCCTGGCATGCTATAAAATAAATGAAATCTGATTAACACTATTGGAGGG
AAGAATAAGTCATCGTTTCTATGAAATATTATTTTCTGATTGGAACCATTTCCATTTTC
GTCAGCTTAAACATTGCATTAAAGATGAGATGACTTTAAACGGTGACAGCTATCTCAA
GCCCTGTGATTATAAATGGTGTATAGGCTTG

Sequence 1782

ATAGGGCGAATTGGAGCTCCNCGCGGTGGCGGCCGAGGTACCAAAGGTCTTCAAGGGTAA
CGATGCTGCTCCATTTAAATAAAAGATGAAGGATGTCGAAACACAAGCAGCCTTTAACCA
GTAGGCCCATAAATAAGACAGTAGCTAGTGCTATGCAATTCTAACACTGGCACTTGTGCT
GGGATTGGCCTCTTCTAGGCTAGGAATTTCTAACCTGGAGGTCAAGGACTTGGGGGGAGG
GTCCTATGGACCCCTTGCAATGTAGGCAAATTTGCATAAACATTTTCTGCACACGTTT
CAAAGGAACCTTGAATATCCGTAAGTTGAGACCTCAAATTAAGTAGAGCTAATTGCCCA
TTTTATTCCTTTGTATCATCTCAAATGCCAATATAATATCTAGTGATAATAAATGTTTG
CTGGCTGCTTAGGAGAGAACTAGATGTGTTAATGACGCCATCTCACAGTGAAAAGGGGCA

Table 1

G

Sequence 1783

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTACAGGGGACC
GCCAGGGGGCCTCGAGAATCGGTATCCTGAGTCCTTGAAGAGCAGTAGAGGTTGTTTCA
TTAAGTGCAAACACATTGTTCTTAATTTGAAAACCTGTGGGCAGAAACAGAAGCCCCGAGAC
TAATTTTTCCATTGCTAACTCTAGATCTCGGCCACTGGAGTCTGAAGATACTCTCTTTGA
GAATGCATATTATTTTGCTCACAGCTAAACATTTAAGTATCATAGCTGATCAGTGGAGT
GAGATTAAAGGTTTCTTTTTTGAATCATCAGCTAGAAGATGTACCTCGGCCCGCTCTAG
AACTAGTG

Sequence 1784

NGCGGCCGAGGTACACTTATAGTTGAGAGCCAAGTCTNCCTTATCATTGGTTAATGAGAA
TGAGCTACTGAAAACAAAAGAGGGTCTTNTACTCAGCCTCTACCCCTAATATTTATATC
AGAAGCAGAGATTAAGTGTCTTACTCATTACACGTTAATGGAAGAGAAGGAAGTTTCC
TAGAAAAATCCTCCCGCTCCAC

Sequence 1785

CCGCGGTGGCGGCCGCCCGGGCAGGTACCATTGACTACTTCATACTGCTACAAAATGCAT
TTGAAATTTTTTTTTCTGGCCAAGGAACCTATTCATCCACTCTCTCCAAATTAATACTT
ACTAGAGAAATGTTGGCACTTATTAACCTTGTAATATGAATTAGAAACAACTTGACCTT
CATATATTCCTTTACACTTATGAATCTATTTAACTGCATGATTTATCTGCATGATTCAGA
ATTTCTTGATACCATGTAAGTGAAGTAAGATTAGAAATATATTTCTTGATACCCCTGT
AACTGAAGTAAGATTTAAAAAGCTGAGGTGACAGTTGTCACCCATAATGCTGATAAATAT
AGGAATGAGTCGATTATAAATTTAAACCTTTTGGGGGCATTATGCTACCAAAATNTCTCT
TTTTTAAAA

Sequence 1786

CCGCGGTGGCGGCCGCCCGGGCAGGTACTTATTTCTTTGCAAGATAGTTTTGTAAAGCGT
CCATAAGCAGAGACTGTGTCAAGGCGTCTACGCAAATTACAGGACCTTGCACAGACAGT
TGCATAGAGCTGCATAGGGGAAAGGCGGGCAAAGGTCTGACCTAAGTCTTCAAACACAN
GCCTTCATACACCGTGCCACCT

Sequence 1787

GGTGGCGGCCGCCCGGGCAGGTACAGATTGNGTCCACTGGAAAGGTAAATGATTGCTTTT
TTATNTTGCATCAAACCTTGAACATCAAGGCATCCAAAACACTAAGAATTCTATCATCAC
AAAAATAATTCNTCTTTCTAGGTTATGAANAGATAATTATTTGTCTGGTAAGCNTTTNTA
TAAACCCACTCATTTTATATTTAGAAAAATCCTAAATGTGTGGGTGACTGCTTTGTAGNG
AACTTTCATATACTATAAACTAGTTGTGAGATANCCATTCTGGTAGCTCACTTAATAAA
AACAATTTCAGAATTAAGGAAATTTCTATGCAAGGTTTACTTCTCANATGAACAGTAG
GACTTTGTACTTTTATTTCCACTAAGTGAAAAAAGAAGTGTGTTTTAACTGTANGAGA
ATTTAATAAATCAGCANGGGTATTTTAGCTAATAGA

Sequence 1788

AACCTTTAGGGTTNTNCCCAAAGTCCCGGCCGNCCTGNTNGGGACTNNGGGGTTGAACAC
TTCGAAANTTTCANCTTNCGCACNACGAAANCAACACNNGAGAAGGCAGATAATTCTCC
ACGAAGCCAGAAAACATAAATGAACAACCTTGGGTGAAATGTCCCACCAGACGGNGNGA
TATTTAGTAGCCCAGAAAGCTGCCAAGGGGTGAAAGACACCTATCTGAAGATATGAACC
AGTTTTGCTCTCCATAGGGGAGGATTCATCAACAGGAAACAAGATGCC

Sequence 1789

AGGTACGCGGGAGTAAATACAGTACAAATTGTTCTACTGTTTTAAAAAGTTTTCCGCAGA
ACAGTGCATTTATGGCAATGCTATGTTTAATGAGTTAGGGACATCAAATATATAGTAGTT
CCTTATTTTCAAGTTGTGAAAATGAAATGGCTAAAGCAGAAGAGACGTCATTTTAGTCTT
TTAAAAATGTGTGGGTGGTCTTTTTCTCAGAAGCCCAAAGCACATGTATATTTGT
TATTTCTCCTTGCTATATTCCTGAGACTATACTAAAACTTTAAGAAAAGGAACAAGAAA

Table 1

AAGGTAAATTCATGTGTTCCCCACTGCTGTGTCTAGAACCAAGATCACATTATATCATTG
TTAAAATTGTGTTATCTAGAAAAGGTGCAATATAGGGGAAAAACACTCTAAGAATCTTTTA
AAAGCCTAGT

Sequence 1790

AGGTACGCGGGGACTCCTTGAGAAGAAACGGCGGAGACCTGAGACCGGGAGGCTGAGGC
TGTAGGTGGGCTCCGCTGGGTAAAAGTTGCCGCAGCAGCTGTCCCTTGGCCCCATCGCGA
TTTATTTTCCCCCTTGCTTTCCGGGTCCCGGGATCCCAAGTTTGTAACAAACGGGAAGC
GAAATCCCACCCGAAGCAAAATGTTTGCAGAGTTTCAGGCNCCCTTAATTGAAAGGCTGT
AATTAACAAGTCCGTTGTTTGCAGCCAGGCNCCGTTGCAGGCNCTTTCTGNNGATTGNC
ATTTATTTCTCACAAGCAACNTAGGGGGNTTGTANTNNTTGAAATNTGGAAAANACN
TNTTAAAAATTTGNNGGAAAAACNCNNTTTTGNNNNNANCCCNNTTTTTTTTTTCGGG
GGGGGAAAAAAA

Sequence 1791

CCGCGGTGGCGGCCGAGGTACAACCTTGACAGTTTATAAAAATGCTAACCTATATCAACAT
TTTTCCCCACCAAAGTGTTCCCAAGGGCAAAGTAAGTGAATACATGTTTCCATGCTTGT
GTCAGGGGCACACAGCAAGGGAAGGCAGAATGGGCATGACTTAGATTAGATTCCAGAAGC
CCTCAAATTTCTTATAANACTTGGGGACTGCATCTTAAATAATATTGTTTTTTTTAT
TCTTTGATAATAAAAGAATGGAACCAATCCTGGTGTCTGATTCTTTGCCAGTGCTCT
TTCTTATGTCTAACACTGCCTCGTCTTATGAATAACTCTGACATTACAGAGAAAGACTAT
TGTTTGTTCAAGTCAACACTCAATTCCATAGGTGCTAGCAATTATGAAAAAGGCTGTTAG
TATCCAGCGGGGAAAGCAAAGGATCCGCAGGTGGTAACACCCTA

Sequence 1792

CCGCGGTGGCGGCCGAGGTACATGCCAGGCACAAGCTGGAGTCACAGATGCCACACTGAC
TATCACATTGTCATCATACTCAGAGAGAGAAAGGTGTATACACCCAGTATTTTCTTATGT
TTTCTCTATACTTCCATATCCCCACCCCATTTATCCCCGAGACATTCCAGTTGGAAGT
CAGTTGCTTATGGGAACTGGCTGCAGGGGGATCAGTCCACCTGTAACACACGGAAAGGC
AGAGAAACAATGAGTCATGGATTTGAGTGCAAACAAGCCCAGTCTGCTACAGAGAGTTA
CGGAAAAAATCTCACTGTTGAAGAGAGACATCTATAAGAGAGGTGAGGAAAATGACTGAT
AGATCCTTTTACAATATTCTAGGGTAGTCTGTCTGTGGGAGGGGGCAGGAGTCTATGGGA
ACTCT

Sequence 1793

AGGTACAACCTTGACAGTTTATAAAAATGCTAACCTATATCAACATTTTCCCCACCAAAG
TGTTCCCAAGGGCAAAGGTAAGTGAATACATGTTTCCATGCTTGTGTCAGGGGCACACAG
CAAGGGAAGGCAGAATGGGCATGACCTAGATTAGATCCCAGAAGCCTTCAAATTCCTTAT
AAGACTTGGGACTGCATCTTAAATAATATTGTTTTTTTTTATTCTTTGATAATAAAAGA
ATGGAACCAAAATCCTGGTGTCTGATTCTTTGCCAGTGCTCTTTCTTATGTCTAACACT
GCCTCGTCTTATGAATAACTCTGACATTACAGAGAAAGACTATTGTTTGTTCAAGTCAAC
ACTCAATTCATAGGTGCTAGCAATTATGAAAAAGGCTGTTAGTATCCAGCGGGGGA

Sequence 1794

GTAATACACTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACTCTGCG
TTGTTACCACTGCCTCCCGGGACTCTGCGTTGTTACCACTGCTTCCCGGGACTCTGCGTT
GTTACCACTGCTTCCCGGGACTCTGCGTTGTTACCACTGCTTCCCGGGACTCTGCGTTGT
TACCACTGCTTCCCGGGACTCTGCGTTGTTACCACTGCTTCCCGGGACTCTGCGTTGTTA
CCACTGCTTCCCGGGACTCTGCGTTGTTACCACTGCTTCCCGGGACTCTGCGTTGTTACC
ACTGCTTCCCGGGACTCTGCGTTGTACCTGCCCCGnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnCGGGCTGCAGGAAATTCGAATATCAAAGCTTTATCGATACCGTCGACCTTCGAAGG
GGGG

Sequence 1795

CCGCGGTGGCGGCCGAGGTACTCTGCGTTGTTACCACTGCCTCCCGGGACTCTGCGTTGT

Table 1

TACCACTGCTTCCCGGGACTCTGCGTTGTTACCACTGCTTCCCGGGACTCTGCGTTGTTA
CCACTGCTTCCCGGGACTCTGCGTTGTTACCACTGCTTCCCGGGACTCTGCGTTGTTACC
ACTGCTTCCCGGGACTCTGCGTTGTTACCACTGCTTCCCGGGACTCTGCGTTGTTACCAC
TGCTTCCCGGGACTCTGCGTTGTTACCACTGCTTCCCGGGACTCTGCGTTGTACCTGCCC
G

Sequence 1796

ACTATAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGAACATTCGACATACGCCAGCA
TGTGATGGCCGAAGGTGATCGGCTGGGCCACCTGCATGTGGGTAAAGCCCCGCATGATGG
TGTCGGCATGCTGTTTCGGCCAGGTCCGTCANCGCGCTGCGGAACGTGCCAGCAGGGCGG
TGATGTCGTCGATGGCGGAACGCACGTTACAGGCGGGATGTCCGGTGGGCCACCTGGTCC
TTGCGCGAACGGCCGGTGTGCAATCGCTTCCCCGCATCGCCTACCAGTTCGGTCAGGCGT
TTTTCGATATTAAGGTGGACATCTTCCAAGATCCAGCAGCCATTCTAAC

Sequence 1797

NTTTTTTTTTTTTTTTTTTTGGGCAATACCAGCTTTCACCCTGTCTTCTGCACTGCTT
AGCCTTGGCTCTGCTGAGTTGTGCAACACATTCTGAGAGATGCCATAAATGCTCCAGGC
AACTTATAGAAAAACAGGAATGAGTGATTTTATACGGGATGTGTTTCAGCTGTCCAATT
CAAAATAATCACGTCCAGGTGCATTCTTCTCTAATTTGTGACCCAAACTGCTTGCACTT
TATACATTAATGAATTATTTTTTAAAAGAAATTAGCTNTATCATGAAGACAGTGCTATC
TAACCCTTTGTGGTCTTCTCCCTTAAAAAGCAATTGTTACCATTTTATAGGTGTTAGGT
TTAATCTACATATTTGAATGAAGCTGAAATGAACTAACGTATGTCAACCAGTAAAGCAG
GACACTTAATAATAATGCTTCCATGAAAATATACATTGTGCATATGTAGGCTCTTTTTGG
CATTACCAAATTTGCCAAGAATTTCTTCTATAAATTAATTCATTATCAAAACTTCTTA
GTGAGCCAGCCTTTAAAAATTNCCAT

Sequence 1798

CGNATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCAGATCTTACCACTGAGGAATTTT
AAGTTATCATTCTGTAAACATTTCTCCAGTGGCTCCACGGAATTTAAAAATGCCTTCCA
AATTGCCTTCAGTTTTACAGGCCATCTCTTACCCTGTGCTGTCTCTCCCAGGATTTTC
TGAAGTTCCTTGTCTGCCTGAAGTNCAGACCTGCCTCCTCCACATCTGTGGTTTGGTGC
GAGAGCATCTTNTGGGCACTGGAGGAACGGTACCTGCCCC

Sequence 1799

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCGGCGAGGTACTCACANGATCT
GTTTCCAGAAACCACTACAAGTGTATGAACCTTGGGTGCTCTCTGATTGAATCTGGG
ATCCAAGCTGGGTAAAGGAGAGAGATGAGTCCAGGCTGCTACAGAAGATTATTTCCATAA
TTCAATATGAGCAGTTTTNAAACACANAAGGATTTNNTNGTCNATGTTAGCTAGGCCAG
CCTTAACACTTCCTCTACCTCATTTCTTAGAAACCAACAAGGGCCTTTCCAGAGAGGGCC
AAGGACGGTGGCATCCAGAAGGGATGAAACACTTGAGTACCTCGGCCGCTCTAGAACTA
GT

Sequence 1800

ACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAACCTTGACAGTTT
ATAAAATGCTAACCTATATCAACATTTTTCCCACCAAAGTGTCCCAAGGGCAAAGGT
AAGTGAATACATGTTTCCATGCTTGTGTGTCAGGGGCACACAGCAAGGGAAGGCAGATGGG
CATGACCTANATTAGATCCCANAAAGCCTTTCAAATTCNCTTATAAGACTTGGGACTGCAT
CTTAAATAATATTGTNTTTTTTTTTTATTCTTTGATAATAAAGAATGGAACCAATCC
TGGTTGCTGATTCTTTGCCAGTGCTCTTTCTTATGTCTAACAAGTGCCTCGTCTTATGA
ATAACTCTGACATTACAGAGAAAGACTATTGTTTGTTCAGTTCAACACTCAATTCATTA
GGTGCTAGCAAATTTATTGAAAA

Sequence 1801

CCGGGCGAGGTACTCACAGATCTGTTTCCAGAAACCACTACAAGTGTATGAACCTTGGGT
TGCTCTCTGATTGAATCTGGGATCCAAGCTGGGTAAGGAGAGAGATGAGTCCAGGCTGC

Table 1

TACAGAAGATTATTTTCCATAATTTCAATATGNGCAGTTTTAAACACATAANGGATTTA
TAGGTCATGTTTAGCTAGGCTCAGCCTTAACACTTNCCTACCTCATTATTAGAAACCA
ACAAAGGGCCCTTTTCCAGATGAGGGCTACAGCGGTGGCATNCAGAAGGGATGAAAACAC
TGAGTACCTNGGCCGCTCTANAAGCTAGTGATCCNCCGGGCTGCAGGNAATTCGATATC
AAGCTTATCNGATACCNGTACGNCCTNTGAGGGGGGGGGCCCCG

Sequence 1802

[illegible]

Sequence 1803

TGGCCGCCCGGGCAGGTACGCGGGGATAATAAAAAATGTATTTACTGAGCCAGTTGTGGT
GGCTCGCGCCTGTGGTCCCAGCGCCTTGGAAGGCCAATGAGAGTGGATCGGTTGAGGCCA
GGAGTTTGAGACCAGCCTGGCCAACATGGTGGGATGCCGTCTCTACTGAGAATACAGAGA
TGGGCCCGGGCGCGGTGGCGCGTGCCTGTAGTCCTCAGCCTCCCAAAGTGCTGGGATTACA
GGCGTGAGCCACTGCACTTGGCCTGGACTCATCTTCATTGTCCACCTCCTAGGCTAAATT
TATGCTTTTTATGTGCTTGAATCTCTGCATACCACTTTAGTGACACTTGCCTGGAGTG
TGATTGGTAATCC

Sequence 1804

AGGTACTTCTGCCTGGGTTATGGGAGTAAAATCTTGTCCAGGGACATCCCAGGGAAGGTG
AACTTGGCCAGGCAGATGCCATAGACAGCGCTCAGAGGAATCCGCTGCAGCTACACACAA
CTCAGCATGATGAAGTCGATTTGCGATCAAGAGAGTCTTGTCTGTGACCAGTAGAATT
CTCTCCTTCTCATTGTTCCAGTGGTCTATCTTTGCAAGAGCCAGAAGCCTTGATGTTCT
TCTCCAGAAGTCTCAGTCACTGACCTTCTCAAGCTTCCATGGCAGTCTCAATGGCCCC

Sequence 1805

CCGCGGTGGCGGCCGAGGTACTTCCGTGAGATATAAGGCTGATGATAAGGATTGGGGTAA
AGAGTTGATTCGGTCACACTTGACTGCCTTGAAATCTGTCTTGGCATCGGGTCCTCTTCC
TCCATCGATAGGTGGTCAGTCTCAGAGGGTTGGTCATCTCCCTCTTGCTTCAAAGACACA
GNCCTGGAAATCNTTCAAAACTCCCAATTGTTGACATTTCTTCAGCCTGACTAGGCTGGT
CCTCAAGGCTCTTCTTTCTTTCTGCACAAAGGGGGCTAGACCACAGATAGTGGCCAGG
AGAGGTGTAGTACTGCTCAGATAAAGCCAGGCAAGACAGTGCCTGTGCTGTGACCCCACT
CAGTCTCCCGCGTACCTGCCCG

Sequence 1806

CCGCGGTGGCGGCCGAGGTACATACATACTTGTTATTCTTGTTACATCTTCCTTATTGAA
TAAATNGTCATCACTTAAATGTCCCTCTTCATCTCTAATAAGTTTTGTCTTACAGACT
ATTTTATCTAGTATTAAGTATAGCTGCCCAACTCTGTATGATTGCTGTTTCATGNGAT
ATCTTTTTCTATCCTTTTACTTTTTCTTTAAAAATAATTTNAAAAAATTAATTNACATAC
CCCTAAAAATGCAGAAAGATTTTAAAGTGCTCAGTTCATGACTGGTGACAATTATACACAG
CTATATATCCCAACCCCAACAAGATATTAACCATATATAATTTTCATACAGGNTTTC
TCATGCCCTTTCCAGGCCAATCCCCAT

Sequence 1807

CCGGGCAGGTACTACAAATACATTTTATAAATGGATGATTGGAAGTGCCCTAAATGTCT
TATAAGAAAATACATTATGGTACGATATATACTAAAATTTATATTCAGAAGAATATT
AAAAGAGGAAAATGCTAGTGGTAAAAATGTTAAGTAACAAAAACATATATTATCCTCAACA
AAATATTTATCAAACCAAATTCAGCAACATCTAAAAAGANTTATACACCATGACTAAGTGA
GATTTATCCCTGGGAATAAGCTTAGTTTAACTCTGAAAATTCATCAGTGAATACACCAT
AGTAAGAATAATAGGACAAAAACCAAGGATCATCTCAACAGAAAAAGAGAAGGCATTGA
CAAACCTCCAACACCCCTTCATGATAAAAACTCAACAAAC TAGGAATAGATGAGAATTT

Table 1

CCTCAACCTAATAAAGGGCTTCTGTGAAAATCTCAAGGCTAATTTCTGATTAAATGG

Sequence 1808

CCGCGGTGGCGGCCGAGGTACTTCTGCCTGGGTTATGGGAGTAAAATCTTGCCAGGGAC
ATCCCAGGGAAGGTGAACTTGCCAGGCAGATGCGATAGACAGCGCTCAGAGGAATCCGC
TGCAGCTGCACACAACCTCAGCATGATGAAGTCGTATTTGCAGATCAAGAGAGTCTTGCT
GTGACCAGTAGAATTCTCTCCTTCTCATTGTTCCAAGTGGTCTATCTTTGNCAAGAGCCA
GAAGCCTTGAATGGTCTCTCCAGAAGTCTCAAGCTACGTGACCTTTCAAGTCTTCCATGG
CAGTCTCAATGGCCCC

Sequence 1809

CCGCGGTGGCGGCCGAGGTACTTGCAGGGGTGCTATGTGAAGATGGCGGAATTTCCCAACGTG
CTTCTGCAAAATTTTATGTATTTCATCCCCCTCTGCTCTCAGTAGGGTGTACCACCTGCG
GATCCTTTGCTTTCCCGCTGGATACTAACAGCCTTTTTCATAATTGCTAGCACCTATGG
AATTGAAGTGGTGGAAGTGAACAAACAATAGTCTTTCTCTGTAATGTCAGAGTTATTCAT
AAGACGAGGCAGTGTAGACATAAGAAAGAGCACTGGGCAAAGAATCAGACAACCAGGAT
TTGGTTCCATTCTTTTATTATCAAAGAATAAAAAAAAAACAATATTATTTTAAGATGCAGT
CCCAAGTCTTATAAGGAATTTGAAGGCTTCTGGGATCTAATCTAGGTCATGCCATTCTG
CCTTCCCTTGCTGTGTGCCCTGACACAAGCATGGAACATGTATTCATTACCTTTGCC
CTTGGAACACTTT

Sequence 1810

GCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTGAAGATGGAATTCATCAT
TCCATCGGTTTTGCCCAGACTGGTGGCAAACCTCTGGGCTCAGGATATCCGCCAGCCTCA
GCCTCCCAAAGTGCTGGGAATACAGGTATGAGCCACTGCACTCGACCATTTATGCATTC
TTCATAATCCTTTTACTGACAACCGTAAATTAACCTCTGGGTTTCTGTCAATCACTGGAT
TTTAAGTCACTAAGTAGCAGAACTATATCTAATTTATTAACATTTCATCATCCCCCTTTGC
CAGCATTGAACATGATGTTTTGCATATANTAGGCATTAAATTNGCTAAANGGAACATAAT
AATGTTTGATAAATAACATCATGGCACATGACCATATTAGGCCTAACTAATTATTTATTC
TTCCATTTAGTGAGTGCAAACTTTAGTCAAAAACATTAAACATAC

Sequence 1811

CCGGGCAGGTACTATTAAATTTAATGAGAGGTAACCCATGCACCGGCAGGAAGTTCAAGG
GGACAGAAGGGGCTTGCTCCACTCTGGAGCCCTATCTCCTCTCACCTCCTTCCTTCTAGT
TTGACATGCGATCTTGTCTCTCTCTTTTATAAAGTGCTTCCAGGCCCNNTTGAATAAGAT
GCTGNCCTAAATCCTTCTCCCGGTACCTN

Sequence 1812

CCGCGGTGGCGGCCGAGGTACGCGGGGGGACAGGCCATCTCGCTATAGGAAAGGAAAGT
GGAACAGCATTTCATCCTCAACATTTTACGAAGACAAAATGAAGACTGGAGTAGAAGACT
GATCAGTGCAGGTGTAGCATAAAAGTGTAATCCTGGAAGATGTGGTGTGAGAAGGTAGCA
CAAGTGAAANCAAGATACAGGAGATAGGGAANGGAAAGCTGGAAGCANAGGTCACTGGAG
GGAGAAGGGAGATGGACACATTCAGGGCTACAAAGCAAGTTCTATGTGATTTGCTCACCT
CTCAATTGTGGGACCCCTCAAATGTGTACCTGCCCC

Sequence 1813

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGGACAGGCCATCT
CGCTATAGGAAAGGAAAGTGGAACAGCATTTCATCCTCAACATTTTACGAAGACAAAATG
AAGACTGGAGTAGAAGACTGATCAGTGCAGGTGTAGCATAAAAGTGTAATCCTGGAAGAT
GTGGTGTGAGAAGGTAGCACAAAGTGAAGCAAAAGATACANGGAANATAGGGAAAGGAAAG
CTGGAAGCAGAGGTCACTGGAAGGGAGAGGGAGATGGACACATTCAGGGCTACAAAGCAA
GTTCTATGTGATTTGCTCACCTCTCAATTGTGGGACCCCTCAAATGTGTACCTGCCCC

Sequence 1814

AGGTACTCTGCGTTGTTACCACTGCTTCCCGGGACTCTGCGTTGTTACCACTGCTTCCCGG
GGACTCTGCGTTGTTACCACTGCTTCCCGGGACTCTGCGTTGTTACCACTGCTTCCCGGG

Table 1

ACTCTGCGTTGTTACCACTGCTTCCCGGGACTCTGCGTTGTTACCACTGCTTCCCGGGACT
CTGCGTTGTTACCACTGCTTCCCGGGACTCTGCGTTGTTACCACTGCTTCCCGGGACTCT
GCGTTGTTACCACTACTTCCCGGGACTCTGCGTTGTACCTGCCCG

Sequence 1815

CCGCGGTGGCGGCCGCGTCTTGCAGGGTTTTATCGGCGCGCAGGTGAAGGCGGACCGCA
ACCGCCTGGCGCTGGCCATGATCTTGTGCTGGCTGCTGGCCGACGACTGGTTCATCGGCC
AGCGCTTGCCGCGAGCAGGATCTGCTGCAGGTGCTGGGCGAGGCGGCGCGAAGTGGCCG
CCAGTACGCCGCGCCACCAAGTTCACGCAAGACCCGGAGCGGCGCGAGGAAGTGGCGCGCA
TCGTGCTGGCGCGCCTGGGCTTTGCGCCAGCGACGAAAGCGTAGCGCAGGCCACGGACA
GATTGTCTGCCATCAGCGGCACGGAGCGCCGCGCCTGCTCGAACGAAGCCGCTGGCCGA
ACAGCGCGCGCGGGAAATCCGCGAGGCGCTGGCGAAAAA

Sequence 1816

CCGCCCCGGGCAGGTACAGTAGAATCCAGTCGTTGGTTTGGAGGCGAGGGCTCTCTGCGGT
CCTCTCCTACTGTCAGGAGCTTCCCGTGCTCATTTTTCACTTACTGATGCACTAAAGGAG
AGTTTGACTTTGAGTCAGCTCAGCATTCTAAATCAAACGCAAACAGCAGAATCATATGGC
ATAGACACTTAGCAAATCCAATGCCCTCCAGGCATCTGTTTCTGTTGATGAAATCCTCC
CTATGGAGAGCAAACCTGGTTCATATCTTCAGATAGTGCATTCAACCCCTTGGCAGCTTT
CTGGGCTACTAAATATCACACCGTCTGGTGGGACATTTACCCAAGTTGTTCACTTTATTA
AGTTTTCTGGCTTCGTGGAGAATTATCTGCCTTCTCTGAGTATTGATTCATTGTGCGCA
TGGTGAAGATATCGNCTGTTCTACAAGGGAGTAAGAATGAGTCCCCGCGTACCTCGGCCG
CTCTAGAACTAAGTGGATC

Sequence 1817

CCGCGGTGGCGGCCCGCCCGGGCAGGTACCTGGTAATTTACAGAACGTTGTTATCAGAT
TTGATAATTATATATTAAGGTTGTAAAGAATGTGTATGCCAGAAATATAGGTAGTAGATC
CTAGATTCTTAGGAAAAATAGTTTCTTTATAATCTTTTGAAGTAGTGAATGGTTACTTTT
ACAATGGTTATGAACTGGGTCAAGGCAAAAGGGCCACTATATGTCTTCAGNCATCTTTCT
ATGCCTGAAATCCANGAAACAGTGAAATGGATGTTCCCTGGAACAGCCATTGCGATGCC
ATATGTTGGTCATTGGTGTCTTAAAGTGTATCTCAAATAATTGNGTGTCTCCCTTACTT
GTGAAGTGGGGTCAACAATATTGATGTGCCTGATGTGTGCCCCCTCTGCATTTCTGGGGT
AGTGTCTCAAATTTGGCTATCATATTGATGAGAAGTCTTAATTTGGTTTAGCTGCCAGAG
GTTTAGGNGGTTTTCACTTCCAGNGACTTACCTGATTGCACAATAGTTCCAACCGTCACT
TGGTTGCACTCCTTCAANGCTAGCATCTTTTTCTAGNAAAATTNCCAATACCATTCTTT
TGGGNTTATCCITTTAAATANTTGCTTGAGAAAGCATTTAAAGGTTAATGCTGGAATT
TATATTTGGTGCGATGCCTNAATNCAATGGGGCCTCT

Sequence 1818

TACGACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACGCGGGGGG
ATTCAGAGTGGAAGGCATAAAGGAGAATCCCCAGCTGACTTGTGCAGTGGTTAATTGAA
ATTATTCAGGCAAGAGATGATGGTGTCTTGACCAGGGGATGAGGAAGGCTACAAAATGT
GTCTACCTG'ATTCTGTGAGGAGAACGTGTTCCCTGGTTTTAGATACTGTGAAGATGGAT
CAGGAGAGAGTTTATCTAGACTGTTGGGGAAAGGTGTTGCGATTCTTCAGCTACACAGG
ATTGAAAGGAGACATTTCTGAAGGGGAAAAAGGAAATGAAAGAAAAGATGTTTCAGATTG
AGGATATCCTGTGTGGTGAACCTGTTCTTCACTCTGTAGGGTTCACAAATGACTCTTCAC
TGCCCTCTTGGATGAAATAAACTGGTTCCTATAGAAATGGACCGTCTCTGATTTACAGT
CTAGAGCACACAAATAACCCAACCTTCTGGAAGCAAGGGTGTGGCTCGTGAGAGCTCAA
GGACAAGGAGGAGTCTGTAAAAAGCACACCTGGACTCGGGGAAATCATTGCCTCTCATCC
TGAATTAAGTAGCGCTTGAAAAGACTCTTTTGAATCAGAAAAATAATGCGAGCCTCCTA
TCAAACCTCTTACACAGCCACCTGAGTGATCAAANGCTTGGGTGGAAA

Sequence 1819

CCGCGGTGGCGGCCCGAGGTACTTACAGTTTGAAGTTGAGTCAGCTCAGCATTCTAAATC

Table 1

AAACGCAACAGCAGAATCATATGGCATAGACACTTAGCAAATCCAATGCCTTCCAGGCA
TCTGTTTCCTGTTGATGAAATCCTCCCTATGGAGAGCAAACGGTTCATATCTTCAGATA
GTGTCATTCAACCCCTTGGCAGCTTCTGGGCTACTAAATATCACACCGTCTGGTGGGAC
ATTTACCCCAAGTAGGCAAATGCATGACAGAACTCACTGGATCAATATCTCAAAATGCTG
GGAAGAAAAAACGGTAACCAGAAATTCTACACAGAGTGAACTACAAAAACAAAATCAA
AGCAAAGCAACAATTTCTGGATATGCATAAAAGATGAAATTATATGTTGCTAGAAGATCC
ATAGCACAGAAGATGCTGATATCCNTCAGGCTGAGGGCTATTAAACAAGATGGAAATCCA
GAAATTATAGAAAGGACAAAAAGAACAAAATGAGAAGCATACAGGTCAATACAAAGACT
GCATATTCTCCTT

Sequence 1820

TTGNCCTCCCTGGCTATAACTACTCTAATCTTCCACCTTTNTTCTCCTTACCCTNACTG
CTTTATCTCAAGAAGATCTTGTGTGGTATATAGATGCGAGAAAGTTACCTGCATGATTCC
GACAGGTGCCCTGCCATCACTCTAATGCTGTTCTCATTGCTNNGCCTTATGGCACATTCT
CACTCACTCACTACCCCTGCCCCGCGTACCTGCCCCG

Sequence 1821

CGAGGTACATGTAGATCCAAACACATGTAAACATTTAGTGGAATTTCCAATCAGTATATA
ATGATTCATTAATTTAAAAAATGGTTCCTGGACAAGTGATTGATAACATGGAGAATG
AAAAAGGTTAGATTTATACTTTACAAACCATAACATAAATAAATTTAGAAAGGTTGAA
AATCTAAATATTTAGAATGAAATGATCAAAGAACTAGAAGATAATTTAGATGAATATTAC
TGTAATCTTAGGTTTAGAGCTTTTAAACATGATAAGGAAGAAACCATAAAGGAAATAG
AGGATTTGAATATATGAAAATTTTACACTTCTATAAATGAAAAATAAGCCATGAAAAAC
ATAAGAAAGTTCAATAACTATTGCCACATAAATCACTCTCTTAAGATTGATTTTCATATAT
AAAAAGCAGTAAAGCAAAATCCCAATAGGAAATAGCCTAAGTGCATAATTACCAAGNNA
AAANATGTNNNTAAAAANNNAAAAAAAAAAGTNCCTGCCCCGGCGCGCCGCG

Sequence 1822

CCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACAATAGGAA
TAATGTAATATTTTATATTTAATTTTTTTAATTACAGAGGTTATTGAGTTTGTGTTT
TTCAGCTGCAGAGAGAGAAATTTGTGGGGATAAAGTCACAAGAATACCAGTTGGCAGAAA
TTGAATTACCTTCCTTTGTATAAGTAATATCCAGTCTAGTCTTAATGCTATAGGATGAG
ATAAGAGAAGGATAGCTCACATTCCAAAATAAAAGCAAAAATATAAAATATTGAGAATTG
AATTTGACAACATGCGAACAAACTGAAAATAGAAAAATATAAACCTTTATTAGAGGACA
TAAAAGAAGCCTGGAATAAGTGGAGAGACAGGTCAAGTTTCTAGAAAGACATGATATTGT
TAAGCTGCTGATTATGTTCAAATTCATACATTTAATTTCAAGTCAAAATCTATTTTCT
TTGTTTGAATCTGAAAGGCTGATACTGTAGGCCATTTAAAAGAATAATATATGGGCTGGG
CACTATGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCCAGGGAGGGCCAGATCATGG
GGTCAAGGAGATTGAGACCCATCCCTGGCCCAACATAGTGGAACCCCGTCTNTCTTAAG
AAATCCAAAAAATTANCTGGGTGCAAGGTGCCTAAAGGTCCCACTTGCTCANGA
NGCTTGAGGCAAGGAGAAATACCTTGAACCTGGGANGCGGANGGTGCAGTGATCCGAGATC
CACCCTTTGCACTCTTGCTGGCCGACCNGAACGAGACTCCGNTTCAAAAAAAAAAAAAA
A

Sequence 1823

GCGGTGGCGGCCGAGGTACGCGGGCATGACAACATAATGGGAAAGACATGGCTCAGATGTG
CAGCCTCAGAGAGCTTCTGAACATTTCTTCTCAGACTAAGCTCTTACACACAGTTGCAGT
TGAAAGAAAGAATTGCTTGACATGG

Sequence 1824

CTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGAGATGTGTT
ATTTATCATTTTATGATGCCAGAGATTTACACGAATTTGTGAAAGGTTTTTCTTACCAT
AGATTGAGGCGGTGTTTGAGGCAAGGTTTTTATTGTGAGTGAGGAAATTGGCAGATG
AAATCAATTGATGTGCAGGACTCTTGGACTGACTATTCTGGTTATGTTTCTTATAACAC

Table 1

ATTAAGAAGAAATTTGAGATAAAGTTAGTAATTGTNAACTANTCTTTATTTATTTTAATA
ACAAATGTTGCAGTATAATTTT

Sequence 1825

CACCTCCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACATTGGA
TTTATTATATGTTAACTACTTCTCAATAAATCTGTTAAAAAATTAACACATTAAACCAC
CCCTCAAGAGAATCCCTAAAATAAAAAATTTAAAGAGGGGGGAAAAAAGGAAGGGAAGCTAC
TGAAAGTTGTAAAGAAGAGACAAAAAGTTACCAATAATGAAGCCAGTGTTTCAAGGAGTGT
GCAGTTAAAATAACATGACACACAGATATCAAACTGGCAACTGAGAGAAGTCCAAGGTC
CTTGGCAAAGAGAAAGCCACTGACCATCCGTGGAAGTGTAGTAGGGTGACAGCCAGAATG
TCAGAGGCTGAAGGGAAGCTATGTAAACAGAGAGGATGGCAGTGAGCTTAGACCACTTG
TTTAAGAAGCTCAGTAAATGAAAATGAG

Sequence 1826

AGGTNCACTTATAGTTGANAGCCAAGTCTCCCTTATCATTGGTGAATGAGAATGANCTAC
TGAAAACAAAAAGAGGGTCTTCTACTCAGCCTCTACCCCTAATATTTATATCANAAGCAG
AGATTAAGTGTCTTACTCATTACACGTTAATGGAAGANAAGGAAGTTTCCTAGAAAAA
TCCTCCCGCTCCACCCTGCAAACTTTATGCTTTTCTGTTACATAATCAGGCAGGGGCAAN
ACCTAACTATTTTGAATTGGTGGTGTGAGGCTAAATCTCTGCTATTGACANAATTGA
NAATGTGATCAATTTCANAGTANCATGTTACAAATTTGTCCCAATTTCAATGGGGAGAA
TTNTAACAAATCATTAGTTGGTTGGCAAAANCTGGTTCTTAC

Sequence 1827

GGAGCTCCCCGCGGTGGCGGCCGAGGTGCGGGGGGGCTTANACCTGACGCTGGGAGGAGA
TGCTGCCACCTAGGTTACTTGTAGGACCCTATACGGCAACCTCCTTTGCCAGGAAGTATT
TATAACATCCTGCAGGAAAATGAGTNTATATGTCANAATACACATTTCCACCTTGCCC
AACAGTGGAANAACATAAGAAGAGAAAAACNTTAAAAAATGACANGGAAGTTAATGGAAG
TCAGCANTGTGATGGTGTGAGGTTGGAGCCTTCANAAGGTAATTAATGCCCTTGTAA
AANAGGCCANANAGCTTGCNCACCTTNTTCTGCCATGT

Sequence 1828

CCGGGCAGGTACGCGGGGAGACCTGACGCGGGGGGAGATGCTGCCACCTAGGTTACTTGT
AGGACCCTATACGGCAACCTCCTTTGCCAGGAAGTATTTATAAACATCCTGCAGGAAAAT
GCANTTGAAGTNGAANAGACANGGNATNTTCCAAGAAAGGTTTATGCCANAACATTNA
TAGTAGAAAATATTNNANNAAGGGAGGTNCTATATTGGTCAAGNAATAACCAACATTTT
TCCCA

Sequence 1829

CTATAGGGCGAATTGGAGCTCCCCGCGGNGGC/GGCCGAGGTACTTACAACTTTTCATAT
AGTATTGGTAGTGTGTTTGAATAATTTAAAAATCATCTTANGTTTGTATTTAACTTTAT
TTATATAGTGCTTGATTAATGATTTTGTGAATGTTTAAAGATGGATACCTTGATT
GGCTTGGCCTNCCAAAGTGCTGANATTACAGGCGTGAACCACCGCGCC

Sequence 1830

CCGCGGTGGCGGCCGCCGGGCAGGTACGCGGGGCGTTTGTAGATGGAAGGAAGAACTTG
TGTGCTTAGACCTGACGCTGGGAGGAGATGCTGCCACCTAGGTTACTTGTAGGACCCTAT
ACGGCAACCTCCTTTGCCAGGAAGTATTTATAAACATCCTGCAGGAAAATGGTAAGCCCT
TGGTTAAATTTATTGGCTTCATTTATGTATCTACAACACTTCTTTCTGTTTATGTTCT
AGGAATAGAACTTACTTTTGGAAATACAGTACCT

Sequence 1831

CCCGCGGTGGCGGCCGCCGGGCAGGTACGCGGGAGTGACTAAATTTGTAGGAATGATAT
TTTCATGGGATTACTCAATCTCACCACCATTAAGTTGCAGGTGACAAGAAAGCTAAGTTG
GCAGATGTTTGTGCTAGAAGCTGTGGGTTACGTCTCCTTTGTGCATGTGTTCCAGACAT
ACCAGTGGCTTGGTATTTAAACATCATGCTCAGGTGTGCAGGGTAGTTTTGAGTTATAA
TAGGTATGCAGGCGCTGTGGGATTACTTGGTTGTTTATGTAAAAATTATTTGCACTCAC

Table 1

TTCTGAAATGAGTGTTAGTAAGAATCATCTTTANAGGAGGTTCCAAGGCATTGAACTGAG
ATACCTGCACTGTTTGCTGTAAATTTAAGCTTAAAATTGAAACCAGGTTATCAGCATTTC
ATGCCAGGAGAGAGTGGGCATGAATGATTTNAGGAAATGAANAGCTAGATTTCACCTTGA
ATTTGCTTCCACCCTTCTGTGGCAAATTAGTGTGGGCTCACTGAGCACTTTATCTGCCCG
TGGTAATTTA

Sequence 1832

CCGCGGTGGCGGCCCGCCGGGCAGGCACCTCCTCCCTATGCATCTGCTGTGGGAAGTGT
GGGTAACACAGATGATGCCACAGGGCATGTATTCAGGCACCACAGGCAGCAGTGAATG
AATGAAGTGAATGGTATTTATCCATTTCTGGAAGGTCCAGGGTTGGCTCTGCAGGG
CCAAGAGAACAGCTTTAGCTGTGCCTTAACCCAGTCCTGGAGAAGCCAGCAGGCCGTAAT
CACGGGGAGGAAACCATCTTTTAAGGGCTCCTCGCTCAGGTGGTGACAAGGTGAGGTGG
TCATCTATGCTGTCTTTATCAGTATCTGTCTAAATACTGTGCTCTGACATTGATGCTAA
TATTCATATTATCAGGGCTTCTGTGGTGTCTAGGCCTCTAATTTTCTCTTCAGTAAGG
GGAATAACTTTGCTGTGTGTCAGCGCAGTGCCTCAGGAGGGTTGCAATCTANAAACAGTAT
TGTTAAAATTGCCTATAAACACACAATATAACAATATGCCACAGACACAGAGGCCCCCA
GCATAGTTTCTGGAANGTGAAGTCTCACCTCTGCCANAGTANAATCACAAGNGGGAATTG
AGGCTTGGCATCTGGGTGCCCTTTGAACTCTTNTGNGGCTCCTGGTAGACAATTGGCC
CCNAAAACNCAGAAAGATTGAGATTGCCATTGCGTTCAANAAATTGGNGGNNAATTAAT
GTAATTCCNGAAAAAAAANACACACANGCTTGCTTATNTTTAAACCNCAAAAAAAA
AAAAAA

Sequence 1833

CCGCGGTGGCGGCCCGCCGGGCAGGTAAGTGGGATTACAGGAATGAGCCACTGTGCCTGGC
CTGATTGCGGATTTTATTGGAATAACCTATAAATATTGAACAATGCACCTGCCAAAGAGT
ATGTCTTAATCTTCTCTTGAATACTGTCAACAAAGATCTCTGAGTTTGAAGGGTAGAAG
TAACCTACTACTTGGCTGCTGACTGTGAAATTTAGTCATGTTTTATTGTGGGAGTGGAC
TGATTAACAGACAAGTGTTATAAGGTTCAAATTACAACATTTCTCCTAATATGCAGTGC
TTTTAACTATGATAAACTGCACCCCTTACAAAAAAAAGAACCCACCCACCAATT
TTAACTTTCTTCTACAAACACCTCTTATCTTCTCTATCAAAGCATGACTGGCCTTTT
TGAAATATTACAGACAAAAAGTTAGGAAGAGGGCAGGCTCGCTAGTTCATGTCACTACA
TATAGGGGAAATGGAACACTTCCATANAAAGCTCTTGATTTCTCTCAGCGTGAGTCTNTG
TCTGANGCATTCCCCTNTNTNTGCTACCAGACACCATCACAGCATGTCTTNTCAATCT
GAGTCTCAAANGGCATTCTGAAAGTGTTGAGGTTATTAATGNCATACCCAAAAGCCTTA
TTAAACTGCACAGTTATTCTGCTTAAGGTTTACTGGCCATTAATAATTC

Sequence 1834

CTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCCGCCGGGCAGGTACGCGGGGGTAGA
TGGAAGGAAGAACTTGTGTGCTTAGACCTGACCTGCGGAGGAGATGCTGCCACCTAGGT
ACTTGTAGGACCCTATACGGCAACCTCCTTTGCCAGGAATTTATAAACATCCTGCAG
GAAATGCAGTGAAGTAGAAGAGACAGGGATATCCCAGAAGGTTATGCAAAACATCAAGA
GAAGATGAGAGGAGTCTATATTGTCAAGAATAACATTTCCACCTTGCCCAACAGTNGA
ANAAAAAACTANATTAAAAAAAANGGTACCTNGGCCGNTCTAAACTAGTG

Sequence 1835

CCGCGGTGGCGGCCGAGGTACCAGGCTAGCGAGCTCTGGAGAAAGCAGAAGTGATAAAT
AAGGTGTGGACTACCAAAGACAGTTCCAAGTCAATTTCACTCTGACACACTCTCTGTG
ATCTTCCACAGTCAGCACAATGCCTGCCCCCTGTGGGTGTTGTATAAATATTTGTTGAAT
GAATGAATCAATCATTCAACAGACCAAGGCCAAATCAGAACCCCAACCTAAGGTCTTT
ATACTCTCACTGTCCATCCATCGATCTTCTGTGAGAAATCAGAATATACCTTTGCAATA
CCCTTTGCTAGCCTTTGAGTTATCTTTGAATAGAGGCTCTGAGCCTTGAAAATATTGCC
TGGGAAATATTAACACCCATTTGAGTATCTCCCAAACACCTCAATTAATATATGGTGT
GTCTAGCCAGGACCTTATTTAGTATAATGTGAACCTGA

Table 1

Sequence 1836

ATACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGACTCAATCT
TACTCCCTTGTAGAACAGGCGATATCTTCACCATGCGCACAATGAAATCAATACTCAGAG
AAGGCAGATAATTCTCCACGAAGCCAGAAACTAATAAATGAACAACCTGGGTGAAATGT
CCCACCAGACGGTGTGATATTTAGTAGCCCAGAAAGCTGCCAAGGGGTTGAATGACACTA
TCTGAAGATATGAAACCAGTTTGTCTCTCCATAGGGAGGATTTTCATCAACAGGAAACAGA
TGCCTGGAAGGCATTGGATTTGCTAAGTGTCTATGCCATATGATTCTGCTGTTTGCCTTT
GATTTTGAATGCTGAGCTGACTCAAAGTCAAAGTGAAGTACCTGCCCCG

Sequence 1837

CCGCGGTGGCGGCCGAGGTACAAGCTAACTGTGCTAGGCAGGGCAGCCCTGTGAGTTCTA
CTGCTGTCTTGGTTTTACAGAGGGGGAAGTGAGGCACAGAGAAGTTAATTAACCTCTGAA
GTGTTGCAGTCTAAGGCACAGAGGCACAGTTCCAGGCAAGGTTTCATCTGAATCTTAAGTC
CTCACTCTTTGCCACCATCCTCCACTGCTGANACCATCCCTGTGAAGTCTGCGCTCTC
CTCCCCTGGTCCATATTTCACTGCTACTCAATGAGGCCAAGGAAGCCAATGGTCTGTCTCC
CAAGAGGATATCTCTCCCTCCTGAGAATCTTTCTTCATACATCTCAATTCTGAGATACA
GATTGAGAAGCACCTNAGCAAATCCACTGATGGAAGGCCAAACAACCTTGATCCACAGC
AATTGACCACAAGCAAGGGAAGCCTGGC

Sequence 1838

CATACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACACAATTG
TGCTGATTTTTCTCTCATTTAAACGGTCCNCAAGTAGTTAGTCCAGGGCTGGTGTCTAT
GGCTCCATGGTCACTGGGGCATTGTGTTCTCCACGATTTCTGCTTCACCAGGCTTAGCC
TTTGCTTCCATCCTCTAGTTTGCCTCATGGCTCAAGATGGCTGCTAGAGCTCCAGCTGTC
TCTTATGCATTCCTGGCTGTAGAATGGAGGAAGGAGGAAAGGGTAACGGGACGCTTACT
GGCTATTCTTGTTTAAAGGAGCATCCTTGATCATACTTAATGAGAATCTGGAGTAATTTT
CAGGAGATCTCAGAGAGGGTACCT

Sequence 1839

ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGT
GTCTTTCTTCACTGGACACCTCTAGATAAGAAGGCAAGAAATCTTAAACTTTTGCTA
ACCTAATTGTGTATGTAATTAGAATAACCAAGTTCAGTTAATTGAAACAATGAGTATTGG
AGTAAGAGTTTGGGATTTGATTCCTTAGGGATAAACTACTAAATCCAGGACAGTCATTTA
ACTGCTGCAGATTTGAGTTCCAGGGGAACCAACAGAAAGTCACACAATTTCTAGGATGA
AAACATCTCAAAAAAATCAGTCCTCCAGCACTTCGGGAGGCTGAGGCANGGAGAGCAC
TTGAAGTCAGGAGTTGAAGACCAGACCAGCCAACATGGTGAAATCCCCGTCTCTAT.AAAA
AATACCGAAATTTAGTTGGGCCGTGGTGACCCCGTGAC

Sequence 1840

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGTTATCAGTATCTG
TCCTAAATACTGTGCTCTGACATTGATGCTAATATTCATATTATCAGGGCTTCTGT3GT
GTTTAGGCCCTCTAATTTTTCTCTTCAGTAAGGGGAATAACTTTGCTGTGTACAGCGCAGTG
CCTCAGGAGGGTTGCAATCTAGAAACAGTGATTGTTAAATTCCTATAAACACACAATA
TAAACCAATATGCCACAGACACAGAGGCCCCAGCATAGTTTCTGGAAGGTGAAGTCTCA
CCTCTGCCAGAGTAGAGTCACAGTGGAATTGAGGCTTGGCATCTGGGTGCCCTGGAAGC
TCTTCTGTGGCTCCTGTTAGACAATTGACCCCGAAACACAGAAGATAGAGATTGCACAT
TGCGTTTCAAGTAATTGTTGTTTATTTATGTTATTTCTGAAAATAAAAGACAGCACAGG

Sequence 1841

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCGCGGTTTTTAAATCTGT
CACTGTTCTTCCCCCACTTCAAAGCTGACTTGACAACCTGCATTTATTTTCATATTGCAATT
GCTGCAGGTTAATAATATTGTTTTATCAGGAAACATTTATCTTGAGGAAGAAAGTTATCC
TAATACAGCAGATAACTTATCCAAGGACAAATAGAAAGGGGACTGTGTCTAGAGGGTAAT
GCTAATGCCTGGCATGCTATAAAAAATAAATGAAATCTGATTAACACTATTGGAGGGAAGA

Table 1

ATAAGTCATCGTTTCTATGAAATATTATTTTCTGATTGGAACCATTTCCATTTTCGTCA
GCTTAAACATTGCATTAAAGATGAGATGACTTTAAACGGTGACAACTATCTCAAGCCC
TGTGATTATAAATGGTGTATAGGCTTGTAATCCTATGGGTTTAGACTAAAGTATTTCT
TCATAAATTGAAAGAGAAACACACTAGGAATTCAGAAGATTTTAATTAAAGTTGTTCAA
AAATTTAATGGGAATTTTAAAGGCTGGCTCACTAAGTAGTTTGATAATGAATTAATTT
ATAGAAAGAAAGTTCTTTGGGCAAAATTTTGGTAATGCC

Sequence 1842

GACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACCAGANCTTAA
AGTATAATAATAAAAAATAAAGTATTACAGAACATGGTCAATTATATTAAGTAGATT
AATTAATGTCCATATATACATTTTTTGGTGGAAATCAAACATAATGAAACTATTTTACA
TAATTAATATTTTGTATTTTTTACTTATTAATTTATTGCAGAGATGGGAGTCTTGCTA
TGTTGCCCAGGCTAGTCTCAAACCTCTGGCCTCAAGTAATCCTCCACCTCAATCCCCCA
AAATGCTGGGATTTTCAAGAACATGCCACTGCACTTTATTAGTGTTACCTGTCATAAAGTT
AATTACTCATAATTTTATTTTCAGTATATATATACACACACACACCACACACCATAG
TAGAATAAATTAATTATATTTTCTACAAAAATTTTCAATCTTTTT

Sequence 1843

ATGGAGTCAGCTGCGATAGCGGCCTGACGTCCGCCGTGGTGCATATCGCGCGCGCGCAGG
AGCAATTTACGGTTGCCCTGAATGGCCGCTTCAAGGGCGGCCATATCACGCGCCATTACG
GCCTGCCGGACAAGCGCGTGCATGCGATCCANCTGGAGATGTGCCAGTGCCTGTACATGG
ATGAAGCGGCGCCGTTCCGGCTACCGGCCTGACCTGGCCGCGCAAGTGCAGCCGCTGCTGC
NCCAGATGATGGAC

Sequence 1844

CTAAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTT
TTTTTTTTCTTTTTTTTTTTTTTGGGCACTTTCTGGTATTACTTGTAACNCTGGTTC
CTTCAACTTTCTGATATTACTTGTAACACTGGTTCCTTNTCAACCACCGNATTCTGATT
GGGTCTATAAGTAGCACCCAGTCCACACCACANCACNCTTCTGGAGGAGGAATGCCAATG
GGGACCCTGTCTGCAATGCCGTGNGGGCTNTACTACAAGCTTCACAAATNTAACAGACCCC
TGACTTTNAAAAAGGAAGGCATNCANACCANAAACCGAAAAATGTNTAGCAATCCAAAA
AGTGCAAAAAAGTGCATGACTCACTTGGAGGACT

Sequence 1845

CCGCGGTGGCGGCCGAGGTACGCGGGGGTAGATGGAAGGAAGAACTTGTGTGCTTAGACC
TGACGCTGGGAGGAGATGCTGCCACCTAGGTTACTTGTAGGACCCTATACGGCAACCTCC
TTTGCCAGGAATTTTATAAACATCCTGCAGGAAAATGGTAAGCCCTTGGTTAAATTTA
TTGGCTTCATTTATGTATCTCACAACTTCTTTTCTGTTTTAGTTCTAGGAATAGAAAC
TTACTTTTGAAATACAGTACCTGCCCCG

Sequence 1846

CCGGGCAGGTACTTGCCAAGATCTCACTCCTCAGCAGCTTTTTATTTCTAAATTTAAGCT
TTTGTTACTGAAAGTTTACAGCAGTTCTAGACTCCTATTCTTTAGCATTCCGTTACGTC
CAGACCATGTGACAACCTCCATTCTACAAATATGTAACCACAAAGAAGGTGAGTG3GGAG
GCAATAAGAACCCAGACTAACAGAACATCAGAAAAGCTGGCATAACGCACACATAAAGAAG
GGGAGAAATATAGGACTATATGGGAGGGAGGAAGGTCACAGAAAATGATTACGGTTTTGA
TGTTGTATTTGTGAAGGTGAGGAATACTAATACTATATTTCTTTAGTCTTTGAAGATACCA
TATTTAGCCATTATTCTATCAACTGTTAAGCCTTGG

Sequence 1847

CATTTTTGTTANCANNGAAGTGAGNGGCATCTATGTATTTTTTAAGGTATATAATGAAAT
TGTGCCTAGGGGAGTNATAATTTACTCTATGTATTTNTATATNTACTTAATCAATACAT
TCTTACAGACTANCTTCTTTAGTGGTAACATACANGCCGATTTTCTCACTCCATGAATGA
TTACNGACATGTATCCANNANCGGAGGTCCCTCATCCACCATTTTACCCAGGTGTCTTGC
TCTTATCTTTTANAAGGGAAAATTGGCTAGCNGGTTTCTCTCCACCATGTGCTGTTCTCC

Table 1

AGGGACTTTGGGTGAATCCAGGTGTGGGAAAGAAGGTAGCATCAGCTGTAAGATTCAAT
Sequence 1848
TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGATCTGTAATTTTGA
CATATATAATATTTTAGCAGTGGGTATTTATTTCTAGATAAAATTTAAATAATAATGA
TACAGCGCAAAACGATAAAAAGCTGAAAGGAAAATATGGTGAGGTATAAATGTAGAAAGGA
CAGAGATTTCTCCTCCAAATACTGTTTCTCTTGGCCCATATTTAATCATTAAATATCA
AAGATAAAATTGTAGGGCAAATAAAATATCCCACTTGGACAAAATCAGTAGTATTTCTA
TACACCAAAAACGTTCAAGATCAGCATCAATCAAGAACATGATGTCAATCCAAATAGCC
ACAAAAAGTTGAAATACCTAGGAATATGGATAACCATGGAGGTGTGAAAGATCCGCTACA
AAGAGTGCTACAAAATACTGCTGAAAGGAAATTC
Sequence 1849
CCCCGCGGTGGCGGCCGCCCGGGCAGGTACATGCCAGGCACAACTGGAGTCACAGATGC
CACACTGACTATCACATTGTCATCATACTCAGAGAGAGAAAGGTGTATACCCCAGTATT
TTCTTATGTTTTCTCTATACTTCCATATCCCCACCCCCATTATCCCCGAGACATTTCCA
GTTGGAAGTCAGTTGCTTATGGGAACTGGCTGCAGGGGGATCAGCCACCTGTAACACA
CGGAAAGGCAGAGAAACAATGAGTCATGGATTGAGTGCAACAAGCCAGTCTCTGCTAC
AGAGAGTTACGGAAAAATCTCACTGTTGAAGAGAGACATCTATAAGAGAGGTGAGGAAA
ATGACTGATANATCCTTTTACAATATTCTAGGGGTAGTCTGTCT
Sequence 1850
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGTTTCTGCGT
TTGTAGATGGAAGGAAGAAGCTTGTGTGCTTAGACCTGACGCTGGGAGGAGATGCTGCCAC
CTAGGTTACTTGTAGGACCCTATACGGCAACCTCCTTTGCCAGGAATTTTATAAACAT
CCTGCAGGAAAAATGTCAGAGATGGGAAGAAACAAGAACTTTGACATGCTTGGTGTTCTTG
CCCAAGCTTTGAAGAAGTTTACAAAGTCTATATGTCAGAATACACATTTCCACCTTGCC
CAACAGTAGAAAAACATAAGAAGAGAAAAACATTAATAAATGACAAGGAAGTTAATGGAA
GTCAGCAATGTGATGGTGTTTGGGAGGGTGGGAGCCTTCAGNAAGGTAATTAATGCCCT
TGTAAG
Sequence 1851
CCGCGGTGGCGGCCGAGGTACAGAGAGTTCCCATAGACTCCTGCCCCCTCCACAGACAG
ACTACCCTAGAATATTGTAAGGATCTATCAGTCATTTTCTCACCTCTCTATAGATG
TCTCTCTTCAACAGTGAGATTTTTTCCGTAACCTCTCTGTAGCAGGACTGGGCTTGTTGC
ACTCAAATCCATGACTCATTGTTTCTCTGCCTTTCCGTGTGTTACAGGTGGGCTGATCCC
CCTGCAGCCAGTTTCCATAAGCAACTGACTTCCAACCTGGGAATGTCTCGGGGGATAATG
GGGGTGGGGATATNGAAGTATAGAGAAAACATAAGAAAAA
Sequence 1852
TTCCTAGTCACATCTGTTGTTGCAGCATGTTATCAGTAGAGCCTCCTTTTACTCTTAAAA
ATGCCCTGGTTTGGATGATCGATCATACCTGCCCCCATCCCCACCCCCCGCGTACCT
Sequence 1853
CTNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGCAT
TGGTGAATGAGAATGAGCTACTGAAAACAAAAAGAGGGTCTTCTACTCAGCCTCTACCCC
TAATATTTATATCAGAAGCAGAGATTAAGTGTCTTACTCATTACACGTTAATGGAAGA
GAAGGAAGTTTCTAAAAAAAATCCTCCCGCTCCACCCTGCAAACTTTATGTTTTTCTGT
TACATAATCAGGTAGGGGCAAGACCTAACTATTTTGAATTGGTGGTGTGAGGCTAAAT
TCTCTGCTATTGACAGAATTGAGAATGTGATCAATTTAGAGTAGCATGTTACAAATTTT
GTCCCAATTTCAATGGGGAGAATTATAACAAATCAGTAGGTGGNTGGCAGAATCTGTTCT
TACTTTCTCCCATCCAGT
Sequence 1854
CCGCGGTGGCGGCCGCCCGGGCAGGTACCTCCTCCCTATGCATCTGCTGTGGGAAGTGT
GGGTAACACAGATGATGCCACAGGGCATGTATTAGGCACACAGGCAGCAGTGAATG

Table 1

AATGAAGTGAAATGGTATTTATCCATTTCTGGAAAGGTCCAGGGTTTGGCTCTGCAGGG
CCAAGAGAACAGCTTTAGTTGTGCCTTAACCCAGTCCTGGAGAAGCCAGCAGGCCGTAAT
CACGGGGAGGAAACCCATCTTTTAAGGGCTCCTCGCTCAGGTGGTGACAAGGTGAGGTGG
TCATCTATGCTGTCTTTATCAGTATCTGTCTAAATACTGTGCTCTGACATTGATGCTAA
TATTCCATATTATCAGGGCTTCTGTGGTGTTTAGGCCTCTAATTTTCTCTTCAGTAAGG
GGAAT

Sequence 1855

CAGGTACATGTCAAAGGAAAAACACGTGAAAGATGAATTCAGCCAAACCCACCAAGTGTTC
AACCTCAGCCTAATCAATCTCATACTCCTAGAGGCTTAAGTATCAGCAGGTAAGATCGTG
ATGACCTGTCTNTGAGGCTCCAGACAATAATTTCTAACTGCCAACTGGAAATCCTTATAT
GGTTAGGCTGCCAATCCCANNGAACAGGACCAAAATAAAAAGCATCACTCATTATCCT
ACTGCAATTTTCTCTTCCCTTTGTCAAATGGGAATGATCTTTACNATCATGATCCTTNA
TTGCANCCAGNACAGAAATCATGAATGTCATCTATGGCCCCCTTNCATCACTCCGGGGCTC
CAATTAGTTGTCCTAT

Sequence 1856

CGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAGA
GCTCCCATTTCCCCACATCCTGGATGATACATGTTATTTAGACATTCTAATTTCTTTCC
AATCCAGTAAGAACGACATGGCAACTCATTATATTCAATTTGCATCCACTCTATTGCTATT
GAGATTAAGGGCTTTTACTGTTTTCTTATATTTCTTGGCCACATGGCTTCATTTCTGT
GAATTGCCCTTTCTTATGGTCTTTTATGGTTAAAACAGCCCTTTAGAAGACTCGGATTTT
AAGGTTGGATTAGGGGTTGGGATTTGAGAGTTTTACACCATGGCCATGCCTCGTTTCCCT
AAGTTATCATTAAATGCTCAGCCTCCACAGCCCATATCCATGCATATCACCCAGGTTGT
CCCAGAACATTCAAGAACTTACTGCTCTTGCTTTGAAT

Sequence 1857

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGAGT
GACTAAATTTGTAGGAATGATATTTTATGAGGATTACTCAATCTCACCCACCATTAGTTG
CAGGTGACAAGAAAGCTAAGTTGGCAGATGTTTGTGCTAGAAGCTGTGGGTTTACGTCTC
CTTTGTGCATGTGTTCCAGACATACCAGTGGCTTGGTATTTAAACATCATGCTCAGGTGT
GCAGGGTAGTTTTTGAAGTTATAATANGTATGCAGGCGCTGTGGGATTACTTGGTTGTTTA
TGTAATAATTTTGCCTCACTTCTGAAATGAGTGTTAGTAGAATCATCTTTAGAGGA
GGTTCCAAGGCATTGAACTGAGATACCTGCACTGTTTGTGTAATTTAAGCTTAAAT
GAAACCAGGTTATCAGCATTTTATGCCAGGAGAGAGTGGGCATGAATGATTTACAGGAAAT
GAAGAG

Sequence 1858

CCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGTAAGTTTAAATCAAAGCAAGANAT
ATGATACTTGCACTCANAAAGCAGCAGGACTTCGGTGGGTGGAACGCAACTCTTCTTG
CTGTTGTCACAGGTGATTTTTCATCAACCAAGTCTTAGATCAATCAATTACACAAATATG
ACACTATTACATCTTTCTTCTGGAGTTATCTTCTGTTGGTCTAATACTCAGATGCTTCT
GAGCCACGCAAAGTAAAGCCCCAGGTNGAATATCCATGAGATGGGACTGATTGTGCTTC
CATGGTTTACCTATCTCAGTGGCCTGCCCTCCTGGCCCTGTGAAATCAGTTTGAAACTT
GCCCTTCTTCTCCTCCTGGTGGTCTTATTAA

Sequence 1859

GACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGACGCGGGAGTTTTTC
AGAATCAGGCCTGCTTTGTCCCTAAATGCTTTCTTATTTCCCGAGGCCCTTATTGGATT
TAAGCCCCATATCATATCTCACATACCTGAGACAGACATACCACAGTGAACCCTGCATGT
CCTTGTAAGTTCTTTTCCGTGCCTAGAAGTTGCAGAAGACCAAGGAACCTTGGAAGTGA
CTTACTCTTTTGTTCATAAAGTTGCTTTAAAACAGCCCTTATTTTAATTATTAACAAGG
TATGTCACACATTTTAAATTTAAGGTTAATTTAGTCATTAATTCTGTCAAACAAGTGT
TCTTTGGAAGCTAGTTGTCTTCAATGTCTTTTACTTGGAGTTACTTGAAGTTTGCTTAA

Table 1

CTTTATTCACTTGGAGTAGAACTTCC

Sequence 1860

CCGCGGTGGCGGCCGCCCGGGCAGGTACCAGGTTCAAATAGTCAGCAGCTCATCATAATC
AATGAGCGAGGACATAAAGTAGGAAAAATGCATCACCATGGTGGGCAAGGAAAGCAAGTT
ATTGGAGGCACATGTTAACACATAAAATATAAAATTAATATGATCACCAGTGGAAAGGCT
TGCCTGAGCCACAGTTTGAATGCCTACAATAAGATGAGATGCACAACAAAAAGCAAGAG
AACCTGATCAAGTGGGTGACCTGGCCATGGTGCTCTCATCAGTGGGGACCCAAATGCTTA
TGTGGACTCACCAGGTATCGAATTAGACATGAATAGGGAGTGTTTGTGTGATGGCAAGA
AACTATATAATCAAATGAATACAATGAACTTTAAAAATAATTGTAAGGAATCTTTACAC
CAGC

Sequence 1861

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTAAAAACATTTTTTCC
TTGAGAAATCATTGCCTAAATCTCATACATATGTGCTTCTCTGCAGAAAAAAAATGAA
ATAAAATAAAATCTTTATTTCCAATGAGCTAATGAGGAAAAAGGGATGATGAAAAAAC
AGGGAGGTGGGAAGCAATTTGGAAATGGAAAGAATGCTGAATACCTACATGATGCCTAAT
TTAGAAGAACATTCTGGTATGTAGGACATTATTTTCAACTCTATCACTTACCGGCAGATT
TTTTTTATATGCAGATGTATCTCTACTCTCTAAAGATGTACATGTGTACACTTATAGTT
GAGAGCCAAGTCTCCCTTATCATTGGTGAATGAGAATGAGCTACTGAAAACAAAAAGGAG
GGTCTTCTACTCAGCCTCTACCCCT

Sequence 1862

TATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACACT
GCACACCACAGGTGGCTGCACTTTTTGGGTGGTGGGGTGGGGATGGGGCAGGTATGAT
CAATCATCCAAACCANGGCATTTTAAAGAGTAAAGGAGGCTCTACTGATAACATGCTGC
AACACAGATTTNANNTAGGAACTGGCCCGCTCTANNAACTANT

Sequence 1863

CCGCGGTGGCGGCCGAGGTACGCGGGGTGAAGGGCTCTCTGTATACTGCTGAAGATTCTA
TAGTTTCTCCTGAAATCCATGAGGGAGCCCCCTGAAGGATTTTGGCCAGNAAAGTGTCAT
GAATCAAATTTCTATTTTAAGAATAGTATCGAGGCAGCAATGTCAAAGTTTGGTTTANAA
AATANGGATGGTTCTGTAAATCCCAGAACTTTTGGAGACCAAGGCGGGAGGATTGCTTGA
GTCCAGGAATTTGAGTCCAGCCTGGGCAACATGGTGAGACCTCATCTCTGCCAAAAAAA
ANNNNAAAAAAGGTCCCTGCCCG

Sequence 1864

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCCATTGAGACTGCCAT
GGAAGACTTGAAAGGTCACGTAGCTGAGACTTCTGGAGAGACCATTCAAGGCTTCTGGCT
CTTGACAAAGATAGACCACTGGAACAATGAGAAGGAGAGAATTCTACTGGTCACAGACAA
GACTCTCTTGATCTGCAAATACGACTTCATCATGCTGAGTTGTGTGCAGCTGCAGCGGAT
TCCTCTGAGCGCTGTCTATCGCATCTGCCTGGGCAAGTTCACCTTCCCTGGGATGTCCCT
GGACAAGATTTTACTCCATAAACCAGGCAGAAGTACCT

Sequence 1865

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGAGGTACGCGGGGGTAGATGG
AAGGAAGAACTTGTGTGCTTAGACCTGACGCTGGGAGGAGATGCTGCCACCTAGGTTACT
TGTAGGACCCTATACGGCAACCTCCTTTGCCAGGAACATTTATAAACATCCTGCAGGAA
AATGCAGTGAAGTAGAAGAGACAGGGGATATCCAGAAAGGTTATGCAAAACATCAAGAGA
AGATGAGAGGTGAGAGATGGGAAGAAACAAGAACTTTGACATGCTTGGTGTCTTGCCCA
AGCTTTGAAGAAGTTTACAAAGTCTATATGTCAGAATACACATTTCCACCTTGCCCAAC
AGTAGAAAAAANNAANAAAAAAGGTTCTTGCCCG

Sequence 1866

GGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGTATTTAAAGGAGGAAAGAGCGATG
AATCTACATGGAAATTAGGTGAAGGAGTGGAATTTGCATCGGCCATATAAGTCCAAC

Table 1

ACATATGGATCTATTCTCCATGAAAACTGGAAATTTCACTTTAACATGGTATTTGCAC
AGTCAGCAGCAATTCCTAACAAATGTCTTTCTTGCTGCTGACATCATATTTTTTACCCCA
ATAATAGAGGATAATTTGGACCCCTTCTGCTTTTCATTTAATTCTGTCTATTTCTGATTG
CACTTCTCCTACTTCTCTTCCCACATGAGAGATGATTGTATTACTTGTGGAATATGATGA
ATCACTTCAACAAGAAATATGTGGCATCTGGTTAAGTTTCTTTCTAGCATATAAATTAAG
CTTGAATCACAGCTGGGTCAAACATTTTCTTTGAAACGGG

Sequence 1867

ATCGACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACTTATAGT
TGAGAGCCAAGTCTCCCTTATCATTGGTGAATGAGAATGAGCTACTGAAAACAAAAAGAG
GGTCTTCTACTCAGCCTCTACCCCTAATATTTATATCAGAAGCAGAGATTAAGTGTCTT
ACTCATTACACGTTAATGGAAGAGAAGGAAGTTTCTAGAAAAATCCTCCCGCTCCACC
CTGCAAACCTTATGCTTTTCTGTTACATAATCAGGCAGGGGCAAGACCTAACTATTTTG
AATTGGTGGTGTGAGGCTAAATTCTCTGCTATTGACAGAATTGAGAATGTGATCAATTT
CAGAGTAGCATGTTACAAATTTTGTCCCAATTTCAATGGGGAGAATTATAACAAATCAGT
AGTGGTTGGCAGAATCTGTTCTTACTTTCTCCCATCCAGTGACTAGGATTTGGAAAGCA
GTGTTTT

Sequence 1868

CTNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACTTATAGTTGAGAG
CCAAGTCTCCCTTATCATTGGTGAATGAGAATGAGCTACTGAAAACAAAAAGAGGGTCTT
CTACTCAGCCTCTACCCCTAATATTTATATCAGAAGCAGAGATTAAGTGTCTTACTCAT
TCACACGTTAATGGAAGAGAAGGAAGTTTCTAGAAAAATCCTCCCGCTCCACCCTGCAA
ACTTTATGCTTTTCTGTTACATAATCAGGCAGGGGCAAGACCTAACTATTTTGAATTGG
TGGTGTGAGGCTAAATTCTCTGCTATTGACAGAATTGAGAATGTGATCAATTTAGAGT
AGCATGTTACAAATTTTGTCCCAATTTCAATGGGGAGAATTATAACAAATCANTAGTGGT
TGGCAGAATCTGTTCTTACTTTCTCCCTCCAGTGACTAGGGATTTGGAAAGC

Sequence 1869

CGTATACGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGT
ACTTTTTTTTTTTTTTTTTTTTGCAGAGATGAGGTCTCACCATGTTGCCCAGGCTGGAC
TCAAATTCCTGGACTCAAGCAATCCTCCCGCCTTGGTCTCCAAAAGTTCTGGGATTACAG
GAACCATCCTATTTTCTAAACAACTTTGACATTGCTGCCTCGATACTATTCTTAAATA
NAAATTTGATTCATGACACTTTCTGGCCAAAATCCTTCAGGGGGCTCCCTCATGGATT
CAGGAGAACTATAGAATCTTCAGCAGTATACAGAGAGCCCTTCACCCCGGTACCT

Sequence 1870

CCGGGCAGGTACACAAAAAATGCCCATTTATCCCTTTGCTGTGGGAGCAGTGCTGATGC
TAGTGGCTCGCTCTTTGGTCTGGCTCTGACTCCACCAGCAGTAACAACCAGCAGTGGTG
GAGGCTGTGGGTGCAATAGACTTTTATCATGGCCACTCTTCTGGAAGATGTCACTGCCAG
CAACTCCTGACTCAGCTTTGGCAGCAGCTGCCGCATCGAAGACTGTTGTGAGTGGGGAAA
GGTAATGGGGCTGCAGGAATGTGAGGATGTAGGGACTTTGGGACCTCCAAGGCAGGATGC
AGTCTAGACCTCCAAGGCTTGGCTTTCAAATGGCACC

Sequence 1871

CCGGGCAGGTACTTGCCAAGATCTCACTCCTCAGCAGCTTTTTATTTCTAAATTTAAGCT
TTTGGTTACTGAAAGTTTACAGCAGTTCTAGACTCCTATTCTTTAGCATTCCGTTACGTC
CAGACCATGTGACAACCTCCATTCTACAAATATGTAACCACAAAGAAGGTGAGTGGGGAG
GCAATAAGAACCAGACTAACAGAACATCAGAAAAGCTGGCATACGCACACATAAAGAAG
GGGGAGAAATATAGGACTATATGGGAGGGAGGAAGGTACAGAAAATGATTACGGTTTTGA
TGTTGTATTTGTGAAGGTGAGGAATACTAACTATATTTCTTTAGTCTTTG

Sequence 1872

AGGTACGCGGGGGTATTTAAAGGAGGAAAGAGCGATGAATCTACATGGAAAATTAGGTGA
AGGAGTGGAATTTGCATCGGCCATATAAGTCCAACCTACATATGGATCTATTCCTCCATG

Table 1

AAAACTGGAAATTTCACTTTAACATGGTATTTGCACAGTCAGCAGCAATTCTTAACAAT
GTCTTTCTTGCTGCTGACATCATATTTTTTCACCCCAATAATAGAGGATAATTTGGACCC
TTTCTGCTTTTCATTTAATTCTGTCTATTTCTGATTGCACTTCTCCTACTTCTCTCCCA
CATGAGAGATGATTGTATTACTTGTGGAATATGATGAATCACTTC
Sequence 1873
AGGTACGCGGGTCCAGTGGACGCCAGGGATCTGAAGGGCAAAGGCAAGGGCTGCTGGAG
CCTGCATCATGTCGAGTCCGCAGAGGAGGAAGGCTATGCCCTGGGCACTGCTACTGCTTC
TCATGGGCTTCCAGCTCCTGGTGACTTAT
Sequence 1874
CCGCGGTGGCGGCCCGCCCGGGCAGGTACAGAAAACTCATTTTCAGTTAAGGGGAAAAAAA
GAGTAAGTGAGCCAGGATTACAGTCCAACCTCAGTCAAAGTTAGTATAAGAAATAAGAGA
ATAAATAGATCAACATCCTCACAGACAATGAAAGCACACCGGAAGGACATGACCACAAGG
CAGATAAAAACCTAATATTTGCCAAAAAATAAAATGCAAATATGACAGGAAATTTATATT
AATTAGTACCT
Sequence 1875
CCGGGCAGGTACCAAAGAATGTTTCATAGCAGCATTATTTGTCATAGTCAAGAGCTGGAA
GCAACCCAGTTGTGCATCAATGGTAGAATGGATGACTAAATTGTAGTGTATTCTTACAAT
AAAATACTATAGAGCAATGAAAATAAACTATGGCTATATGCAACAACATGGATAAA
TCTTACCAACAATGTTAGACAAATGTAGCCAAACCAAAAAATACACATGTTCTATGAATC
CATATATGCAAGGTTACAATAGGTGATAGTAGCTACTCTTTTGGGAAGGAGTGAGGAAA
GGACTGAGAGATATTGCAGAGGGGGCTCCGGGTGTTTGTA
Sequence 1876
CCGGGCAGGTACTTTCTTGGCCAGACATCATACATCTGCCTCTATAGAATCCCTCATTCA
GGGGGTCACTGATGAAGTGTAAGGCCCTAGGGTTGAGCTTCAGCTCCACTGTGGGGTAGG
TTTTTACCTTCTCCAAAGCTTCATTTTCTCATTGTAAAATGCAGATAATGTGTGTCTTG
CCAAACTCTAAGGGCTGTTGTAAGAGGTTTAAATGGCATAACAGATAGAAATGATTCAAG
CTATTAAGTCCTTTATAAATGTGTGGAATGTTGTTTCTCTGTATAAATCTTAGCTTTTCT
ATTATCTCAACAAAGGTGATTTTCTTGTGAAGAAGGTTTAGTAGCCAGGCATTGGACAAC
T
Sequence 1877
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ATAGAGATAGCTTATATTTAGAACAAGTTAGTAGAGACTGTATGATTTTCCAAATAGAGA
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TTATAAAGAGTAACTGGGTATGGCCGGGTGCGGTGGCTCACGCCTGTAATCCCGGCACTT
TGAGAGGCTGAGGAGGGTTGATCATGAGGTCAGGAGA
Sequence 1878
AGGTACTTCTGCCTGGGTTATGGGAGTAAATCTTGTCCAGGGACATCCAGGGAAGGTG
AACTTGCCAGGCAGATGCGATAGACAGCGCTCAGAGGAATCCGCTGCAGCTGCACACAA
CTCAGCATGATGAAGTCGTATTTGCAGATCAAGAGAGTCTTGTCTGTGACCAGTAGAATT
CTCTCCTTCTCATTGTTCCAGTGGTCTATCTTTGTCAAGAGCCAGAAGCCTTGAATGGTC
TCTCCAGAAGTCTCAGCTACGTGACCTTTCAAGTCTTCCATGGCAGTCTCAATGGCCCC
Sequence 1879
AGGTACCCAAGCCAGAAAGTGAGCCCACTCTGACTCTCATGAACTGGGTCCTGATTCTT
TAAGGTTATTTTGCCTAAGTATATTTCCACTCTGGCCTCTCCTTTCCATGCCCAGTCAA
CCACCAAATGTGCCACATCCCACCCAGATAAGTACCTGCCCC
Sequence 1880
CCGGGCAGGTACGCGGGGAGACCTGACGCTGGGAGGAGATGCTGCCACCTAGGTTACTTG
TAGGACCCTATACGGCAACCTCCTTTGCCAGGAATTTATAAACATCCTGCAGGAAAA

Table 1

TGCAGTGAAGTAGAAGAGACAGGGATATCCCANAAAGGTTATGCAAAACATCAAGAGAAGA
TGAGAGGTCAGAGATGGGAAGAAACAAGAACTTTGACATGCTTGGTGTCTTGCCCAAGC
TTTGAAGAAGTTTACAAAGTCTATATGTCAGAATACACATTTCCACCTTGCCCAACAGT
AGAAAAACATAAGAAGAGAAAAACATTAAAAAATGACAAGGAAGTTAATGGAAGTCAGC
Sequence 1881
GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAGCACGTGCAGAAAAGAAAGA
GTCTCCGCTTGCTTTGTCTGATTCTCCTGTCTCTCCATGGAAGTTACATTTTCTGTAA
AGGATGAGCTGAAAATTCTCCTGGTGGTGGCAGTTGAACCTCTGCTGTGCTCTGGGAAG
GCATTCTCACTCTGTTTATGTTGTCTAAGTGCANACATGGATGTGCAGGTTTGCTAGAAC
CTCCTGAGGATGTGCAATGGTCTGTTTCATGCCTGAATCAGTTCTTTTGGGAGTGGACAT
TCTTTCTCTCCCTCATGCACAGCCTCAGGCACATGGCTTGAGCTATGGCGGCACGCAGNA
TGGCCATCACCCAGGTACCTGC
Sequence 1882
AGGTACACTTATAGTTGAGAGCCAAGTCTCCCTTATCATTGGTGAATGAGAATGAGCTAC
TGAAAACAAAAAGAGGGTCTTCTACTCAGCCTCTACCCCTAATATTTATATCAGAAGCAG
AGATTAAGTGTCTTACTCATTACACGTTAATGGGAAGAGAAGGAAGTTTCTAGAAAA
ATCCTCCCGCTCCACCCTGCAACTTTATGCTTTTCTGTTACATAATCAGGCAGGGGCAA
GACCTAAACTATTTTGAATTGGTGGTGGTGGAGGCTAAATTCTCTGCTATTGACAGAATTG
AGAATGTGATCAATTTAGAGTAGCATGTTACAAATTTTGTCCCAATTTCAATGGGGAGA
ATTATAACAAATCAGTAGTGGTTGGCAGAATCTGTTCTTACTTTCTCCCATCCAGTGAC
TAGGATTTG
Sequence 1883
GGCGCGGCCGAGGTACAGTGGTTTACGCCTGTTAATACTATGCACCTTGGGANNNCGAG
GATTACAGGCGTGACCCACCGCGCCAGACCCTTGCAATATTTACAGAGCCAATGTGT
AACTTGAGTGGTGCAAGGACATGAAGTTTACCCAAGGCTTAACAGTTGATAGATAATGGC
TAAATATGGTGATCTTCAAAGACTAAAGAAATATAGTTAGTATTCCTCACCTTCACAAAT
ACAACATCAAACCGTAATCATTTTCTGTGACCTTCTCCCTCCCATATAGTCTTATATT
CTCCCCCTTCTTTATGTGTGCGTATGCCAGCTTTTCTGATGTTCTGTTAGTCTGGGTTCT
TATTGCCTCCCCACTCACCTTCTTTGTGGTTACATATTTGTAGAATGGAGGTTGTCACAT
GGTCTGGGACGTAACGGAA
Sequence 1884
ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGG
TAGAACAGGCGATATCTTACCATGCGCACAATGAAATCAATACTCAGAGAAGGCAGATA
ATTCTCCACGAAGCCAGAAAATAATAAATGAACAACCTTGGGTGAAATGTCCCACAGAC
GGTGTGATATTTAGTAGCCAGAAAGCTGCCAAGGGGTTGAATGACACTATCTGAAGATA
TGAACCAAGTTTGCTCTCCATAGGGAGGATTTTCATCAACAGGAAACAGATGCCTGGAAGGC
ATTGGATTTGCTAAGTGTCTATGCCATATGATTCTGCTGTTTGCCTTTGATTAGAAATGC
TGAGCTGACTCAAAGTCAAAGTGAAGTACCT
Sequence 1885
ANGGCGAATTGGAGCTCCCCGCGGTGGCCGAGCGGCCGCCCGGGCAGGTACTGTTACTAT
CCTTAAGATGAGGGAAGTGAAGAACCAAGAGGTTAAGCAATTTGCCTTTGGTTCACATAG
CTAATGATGTGGAGATTGAACCTTAGGCTGTTTGTCTCCCAAGCCTATGTTCTTAAATTT
GGGGAAATAGTAAAGATAATTTCCACAATGTGAAGACAGTTAGCAGCCTTAAGGATGAAA
GGATGGTGCAAAATACCATGCCAGTGAGTGACAGAGTATCAAGGCTGGTAGAGCCTGATG
AAAGCACAAGTTTTCAGAAAAGAGGGAAACAAACAATTCCTATAAAGTTAAGAAAATCAC
ATTGACACCAGACTTCTCATTGGTAGAGACCACAAAGCCCTTTTCAAAGTGGGTCAAAC
TGGCAGGCTGAGCACATATCCTTCCCTCCCTTTCTG
Sequence 1886
CTCCTATAGGGCGTTTTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAAAAGA

Table 1

ATGTTTCATAGCAGCATTATTTGTCATAGTCAAGAGCTGGAAGCAACCCAGTTGTGCATCA
ATGGTAGAATGGATGACTAAATTGTAGTGTATTCTTACAATAAAATACTATAGAGCAATG
AAAAATAAATACTATGGCTATATGCAACAACATGGATAAATCTTACCAACAATGTTAGA
CAATGTAGCCAAACCAAAAAATACACATGTTCTATGAATCCATATATGCAAGGTTACACA
ATAGGTGATAGTAGCTACTCTTTTGGGAAGGAGTGAGGAAAGGACTGAGAGAGTATTGCA
GAGGGGGCTCCGGGTGTTTGTAAATTTCTATTTCCAGTGCAGGTGTGGTTTGCATGAGCA
TGTTCACTTTGTGGAATTCATTGAGCTGTAACATAATATACAGAATTATTN

Sequence 1887

CCGCGGTGGCGGCCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGTGTTGTTGTTTTTTT
TTGAGACAGAGTCTCGTTCTGTCACCCAGACTGGAGTGCAAGTGGTGCGATCTCGGCTCAC
TGCAACCTCTGGGCTGGGCAACGGTGTGAGACTTGGACTCAAAACACACACACACACACA
CACACGAAGCGGGGAAAAATTCTGGTGCTTCGCAAAAGTCATCACAATACAAATCAAAATAA
ATTTGTCTTAAGCCACTTAGACAATACTAACCAACTTTACCAGGTGTAATCCATGCACA
ACCAAAACCTTTTACTGTGAGAGCGAAGCTCTTATGGAGTTCTACCCTCATCAGNGATCT
CCATTATAAGGATATAAAAGACTAGTAGATTCTATTTCATGAAACCATTTTTCTTGGCTTG
GTATTAATTTTGGTAAGAGATGAGTTACCAAGTTAGAAATTAGTGTGGTCCCAAATTA

0

Sequence 1888

CCGCGGTGGCGGCCCGGCCGCGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTTTTTTAT
TTTTNGAGACAGCTTTCTATTCTGTCACCCAGGCTGGAGGCCATTANAAAAATAATTTGTG
CTGTTCTTATAAATATGAAGAACTTTGGAAATATCTNTGTGACATCGGATGCAGTTTGTG
TTTGGGAAGTATCACTGATAAGAAATAATACTAAAAATTAGCAACCCCATTTGAAAAGTGG
GCAAAGGACATGAACAGACACTTTTCAAAAGAAAAAATTCATGCANCCAACAAATATATG
ACAAACAGCTCAACATCACTGATCATTAAAGAAATGCNAATCAAAANCCNCATTGNGATC
CATCTCACTCCAGTCAGAACCCACCAT

Sequence 1889

TNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACTGTATTTCCAAAAG
TAAGTTTCTATTCTAGAACTAAACAGAAAAGAAGTGTTGTGAGATACATAAATGAAGC
CAATAAATTTAACCAAGGGCTTACCATTTTCTGTCAGGATGTTTATAAATAGTTCTCTGGC
AAAGGAGGTTGCCGTATAGGGTCTACAAGTAACCTAGGTGGCAGCATCTCTCCAGCG
TCAGGTCTAAGCACACAAGTTCTCCCGCTACCTGCCCC

Sequence 1890

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGGCCGAGGTACAAGCTTTAAATG
GGAATAAATCTTTTATAAGCCTTTCCATTTACTTTCTGCTTATTAAAGGTGAATTGTAA
TGAAAAACCCCTAAATGTCACAGAGTCTGAAAAATTGAAATAATAAGGGGCAGCATTCTCC
TTAAGTGGTATAACCTAGTAAAAAGTGGGCCTAATGGAAAGTCCACCGTGGAATCATCTG
TGTTTCTATGCAACAAAATTATTTCTTTCTTTCTTAACAAGGGAAGTAGTTCTGACCA
ACAAGGTTGGCTGTCTTAANCATTGNGGTGGAGAGCAATGGAAAGATGAGTGTGTAGTGG
GAG

Sequence 1891

CGAGGTACGTAGGGGCCCTTTGCTGCAAGCTTAGGCCAGTGTGAGCTCCTGAGCCACTCC
TGACTCAGTTGGAGGAGACTCAGTGTCCACTGCCCCCTGCCTGGTGGAGCTTGGCAGCAA
GTCCCAAGTTTACAGTGTTGAGACCAAGTGGGCAGCCATCACCATTGAGGGGTGCCCTT
TTGCTCCCCCTCGAGTCCAAGTTATAGTATTGCTTACTTCTACCTGAAATAGTTTATGG
GTCATGGGTCCGGCTTACATCAAGCCCCATAGCCAGTCTGGTTGCCCCACCTAAGGTCTT
GGTGCTCTTTGATAATAGCCACAAGCTTAAATGTATTAAGTCTCTGCTAGGAAATGCAT
GATCTTCTGCTCTAGAACTAAGTG

Sequence 1892

ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGNCCGGGCAGGTACAAGGG

Table 1

GAGACAGCATGCATGGTGTGNTCAGAAGAGCTTGCTGAGGTGCTCGGCTCTTANCGTTAA
AAATGTGATGTTGGTATATCATCCTGATAGAAANCACTGCTTCCCAAATNCTAGTCACTG
GATGGGAGGAAAGTNANNAACAGATTCTTCCGACTCACTACTGANTTGTATANTACTT
CCCCATTTGAAATTTGGGACAATTANTTTGNGGGCATNGCTACTCTG

Sequence 1893

GNCCGGCCAGGTACTGCCACAGGACTTTCAAAAAGGAGGGGGGAAAATTAATGAAAGTGAC
ATGCATCAAACAAATCAAGGGGCAGTGTTGAGGTCACTCTCCACGGAGCTGTAAACTCAGA
AGTGTTCCTGGTCATATATGGTCAATTANGGTCAAGTCTGAAATAAATNTANAANAATG
ACCTAATTTTCCAGCTTAACCTCAGNAGCTAAAATCCATAACACTATCANACTTTCTTTT
AATTTATGAGATGGAGTCTTGCTCTTGTCGCCCAGGTTGGAGTACCTCGGCCGCTCTAGA
ACTAGTG

Sequence 1894

AACACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAAC
CACCAGGGCCCTTGCTTCTGAGCAGGAAGCAGCTGGGGAATAGGCTCTTCTCTTAATGA
CTTCCAACATAGTTCTCTCAAACCTTACTCCTCCAGAAGGCCACCCTCACCTGGCTATGG
CTACTTCAGAAAAAAGTTGGCCTCTGGTATAATAGAGCAGAATCATCACCTCACATTCTA
TTTCAAGCCAAAGTCAATATCTCAAAGGCTGGTTCTGTGATTTATTTGGCCCTTGGGAGC
TCCTACTGAAAGTGCTGAAATGTCGTACCT

Sequence 1895

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGCNNGGTCTTTAAAAAC
TNGGGGGCCNTAGGATTCATTTTAACCATTTCTTGCCCTCACTCTCACTCTGTCACTATGT
GGAGTGTCTAATCCATTAGGGAATATAGCTCCTATATCACTGGCTACCCAAATGGACCT
CAAAAAGGCAGACAGAGCCCATCCCCAGAATATCCTTGGTTCTTGCTGGTCACAAGGACC
AATAACATCATTAAACATTGATGTTTCAGAGTCAATACAGGTATAAGAACCCTTAGGTTTAG
GACTGTGAATAGGGGAGCGGTGAAATGAAATACGGCCTTGAATTAGTTTCACTGTCAAC
ATATCTCATATTTATCTAGCTAGGGTATTTTAATTCTAGGGTATGTTATGTCCAGAAGAG
AGGAATGATTTT

Sequence 1896

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCTCGAGCGGCCGCCCGGGCAGGTACTC
TTTATGCACATCAGTGTGGGGCCTTAGTAACCACTGTGCAAGTTGAAACTGGGCAAAGTT
ATCTTAATAATTAATGGGAAAACATAAACTTCTTCTGCAATCTTTAAAGACACTTGTCA
GTCAGGTGCGGTGGCTCACGCCGTAATTCCAGCACTTTGAGAGGCCAAGGTGGGCGGAT
CACTTGAGCCCAAGGGTTTGAGAACAGTTTGGGCAGCATGACGGAACCCCTGTCTCTACAA
AGACTACGAAGGTTGGCCGGGAGTGGTGACATGTGCCTATAGTCCCC

Sequence 1897

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATCTCTAGC
TGATGATTCAAAAAGAAGCCTTTTAATCTCACTCCACTGATCAGCTATGATACTTAAAT
GTTTTAGCTGTGAGCAAAATAATATGCATTCTCAAAGAGAGTATCTTCAGACTCCAGTGG
CCGAGAATCTAGAGTTAGCAATGGAAAAAATTAGTCTCGGGGCNTTCTTGTTCTGCCCA
CAAGTTTTCAAAATAAGAACAATGTGTTTGCACTTAATGAAACAACCTCTACTGCTCTTC
AAGAGGACTCAAGATACCGATTCTCGAGGCCCTGGCGGTCCCCTGTAAGTACCT

Sequence 1898

CCGCGGTGGCGGCCGAGGTACAGATAGAGTCTCACTATATTGCCTAGGCTGACAGAGTAT
TTTTTCCCTTAATTATCTTTATTCTCAAATGCAGTGAACAGTCACAGTAGCCACCATA
GGGGGTTCAATTTTACAGACATTACAGTAACTAGGGGAATTTTATTAAGGAACCAGCNGCTT
AACCCNTANTNGGTANTAATTCTTCTTTTTAAACCCAACTCCAGAANTNATTCAGAA
TTCATCAGTCCTTCCCNATCAGGTGGCTTGCTTTTTCTNNGGTCCCATGGATCCAATGTAN
GGAAATTCACAATCACAAGTTAAGTNTTTTTAATCACTTCTTANGNNCCTNCTCCCCACT
TCTGGGGATGGGTTTCCCTCANNTAATCCTCTTTTGGTCTTTCCAGGGGAACCCCTGGAC

Table 1

CACCTTTTNGAAAAGGAAGGTTANTTNGGGAACCAGGCCTTTTTTTTT

Sequence 1899

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTAATTAA
ATTTAATGAGAGGTAACCCATGCACCGGCAGAAAGTTCAAGGGGACAGAAGGGGCTTGCT
CCACTCTGGAGCCCTATCTCCTCTCACCTCCTTCTAGTTTGACATGCGATCTTGTC
TCTCTCTTTTATAAAGTGCTTCCAGGCCCNTTTTGATTAAGGATGCTGTCTAAATCCT
TCCTCCCGCGTACCTCGGGC

Sequence 1900

TGGTGGCGGCCGCCCGGGCAGGTAACAGGGGCAGGCTACCGTCCCCGGCTAATTATTT
TAATTTAATTTTATAGAGATGAGGTCATGCTGTGTTGCCAGGCTGGTCTCGAACTT
CTTGGGCTCAAGAGATCCTCCTGCCTTGGCCTCTCAGATTGCTGGGATTATAGGNGTGAG
CCACCNACACCTGGCCTATGATCTTAACCTTTATTTACCACCTTTTGGACATTTGCCAAA
ACTAAGTTTTACAAGATCTCTCACCATATCTCTGGGGATGGGAGGAGGAAGGGAAGGATA
ATGGTCTCATATTCATAATAGTATTTGCAGTGCCTATTCTCACAGTTGATAAATGACTAT
AACCTTTTCAAGAGGATGAGTGAAAGAAAGAGGGAGGCAAGAANAATGAAAAAGGAGGTA
A

Sequence 1901

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTAATTTTGTGTTGTTGT
TTAGAGAGACAGGGCCTTGCTCTTTTGGCCATGCTGGTCTCAAACTCCTGAGCTCAAGC
AGTCTCTGCCTCAGCATCCCAAGTAGCTGGGACTACAGGCCTAATACTTTTGTGCCTG
CTCCTCTCTTCTGTTTCTACCCCATCATTATCTGCTCAGATCTTCTTAATCAACTACTG
CAGCAACCTGCTAAATGTCTCTCAATCTTCTGGGATAAGTCAATCAACTGCTAAATGAA
TCTTCCCTAAATTTACTTTTATTGAGTCTTCTGCTCAGAAACCTATTTTACTTCTTT
CTAAGTCTCAGCATGGTATTTCTTCTCTATGTTAATTGACAGTCTGTCTTAAATAT
GAACTGTCTATTCTGCTCTTCTTCCCTCAAACCCAACTCAC

Sequence 1902

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACACATTATCTAAGATGA
TACCTATAAGGCAGATAGTATTATCCCCATTTTACAGATGCAGAAATTGAGTATCAAAGT
GGTTAACTTGAATAATGTCAAGCAGCTAGTCAGTGGTGGCAGTGGAATGTGAATCCAGGA
AGTCTGACACAAAAACAAGTGGTCTTAATGCTATAACATGCTTAATGCTAAGAAAAAGTG
GACAGTATAATGCTATACTGTTCTGAATAAATATCCAGTAAATAAGGAAGGCTAGAAGA
ACACAAAGTTTGTAACAACATGTTTTCTAGTAGAACTCTTCTTGTGACTTTCTGATT
CTCAGGTATAGCATCAATCGGTGAGGGTTGCTATATGGTAAACATTATACTGACAGGCCA
AAGCGATCAACTGTGAAAACCTAGGCAAAGCCAAAGTA

Sequence 1903

CCGCGGTGGCGGCCGAGGTACAGCTTGAACAAATCCACCTTCTGTGGACCAAGCACCACC
CTGGGCATTTCTAGCATGAGCAAAATCCAAGGTCTTGGCTGGACTCCAGAGATGCTATTT
ACCTCAGAAGCATGACAATAGGAGGCAGAAAGGAGCAGGCAAATCCAAGTCTTTCTTGTA
GTTTCCTTGTTGGGGAGGAAAAGTTGAGTTTACTATTATGGAAAAGAAACAGGAAATA
GAGACAGACAAAGAGATATGACAATACAGTCTGCCACCCAGATACTCATTCCACCTAC
CATCCATGCATTTGTTTTGAATATATAAGTATGTACCTGCCCCG

Sequence 1904

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATTGCTTTATTTTTCATG
AGACATAATCATGTCTTATTATAAATTTGCCTAAGCAGGGGATAATATCTGACATACATG
CTACCTGTTATTGTGTAATTTGAAAATATTCTATCTTACCAGTTGTTACAATTAATATA
TTATACTGATAATTTATTTTTCAGACATTGACATAATAAAGTTTTATTTGAAATATATC
TTAATCAATAAATATAAAACAGAAACCACTCTAATAGAGGACAATTGTTCTAGTCAATAC
TCATATTTGTTCTGACTATTGAGAAAAATTATGTCTGCATTTTAAAGTTTCAAATTTTG
AAGCTTCAGATTTTGAATAGGGATT

Table 1

Sequence 1905

CCGCGGTGGCGGCCGAGGTACGCGGGGAGACGGCATCTGAACCTTGCCGAGTAGGAATGT
TCCAGAAGTAAGAGAGATGACTAGGGTTTCAAGAACAAGGACCAGCACCTATGAAGGCTC
TGAGGCACAGACCACTGTGACCTGTGGAGAAGTGACAGCAAAGTGAAAGGCACGTTTTGA
TTACTACCGACATTCACAGTCTGGACACGGGTGACAAATCTAAAAGATATTGCCCATTCG
TCCAACGCGCGTGTCTGCCAGTATATCGTCTGAGATTACCATCAGCTAAATATTGCAT
TGCTTTGGACAATTTTCTACATTGTGACTCCTCACTACATTTTCAATGCTTTTCTAGT
CCCAGACAAGCTACAGACTGTAAATTTACACTTGCTTTTGCCTTGCCTGAGGAAATTGAA
AATAAATT

Sequence 1906

AGGTACTTACAACTTTTATATAGTATTGGTAGTGTGTTTGAATAATTTAAAAATCATCT
TAGGTTTGTTATTTAACTTTATTTATATAGTGCTTGTTAATGATTTTGGAATGTTTT
TTAAAGATGGATACCTTGATTTGGCTTGGCCTCCCAAAGTGCTGAGATTACAGGCGTGAA
CCACCGCGCCCGGCCGACTTCAGGAGATCTTAGGCATCATTGGTTTGTGTTCTTCAGTT
AAAAATAAAAAGCCAACTCAAGACAAAGAATACAGTTCAAGTTCCAGGTTAGGAAGAGGG
AGAAGCTCAGCTTCTGAAGTAGTGCTATATTTACTGTTTACCTTGACTGTTATCTTTAGA
AGTTGATGATNATTTTAAAAATTGNGTTAACTGCTGTTTGAACGTGTTAAAGTTC

Sequence 1907

CCGGGCAGGTACTGGTTTTACTGATCTTTGTGCAATTTGCTGCTCAGCAGATATTTCAA
TGCTGATTGGTAATATGTCAGTGGATAACCAAGTGGAATGCATGTCTATTAATTACTATT
GCACATAATATTTATCTTGTTTTATATTTGCACAGGATTTCAAGGTGCTGGTATATT
TCTGAGCACTGTAAAGTTTTCTTTGAGAAATAAGTGTTTATTTTAAATTGCGTTGTCTC
ATGGGAGGGTAACATTTGTAAATATACTTCAAATTAGTGTTGTTCCCTCTGCTTTCTTTT
TCCTGACTCAGAAACAGAGTGCTTTGACTGCTCTATGTTGGGGCCATG

Sequence 1908

AGGTACAATATAGGCAGACAGTTTGCCTTCAGAAATTCAGAAATGCAGCTTTTGAGGGAG
GTCAGCATCATTGGTCTCAGCTACCATTTTCTGTCAGGATGTTTATAAATAGTTCCTGGC
AAAGGAGGTTGCCGCATAGGGTCCTACAAGTAACCTAGGTGGCAGCATCTCCTCCAGCG
TCCCCGCGTACCTGCCCCG

Sequence 1909

CCGGGCAGGTACGCGGGATGGGTTTAGACTAAAGTATTTTCTTCATAAATTGAAAGAGAA
ACACACTAGGAATTCAGAAGATTTTAAATTAAGTTGTTCAAAAAATTTAATGGGAATTTT
AAAGGCTGGCTCACTAAGTAGTTTTGATAATGAATTAATTTATAGAAGAAAGTTCTTGG
CAATTTTGGTAATGCCAAAAGAGCCTACATATGCACAATGTATTTTTCATGGAAGCAT
TATTATTAAGTGTCTGCTTTTACTGGTTGACATACGTTAGTTTCATTTACAGCTTCATTCA
AATATGTAGATTAAACCTAACACCTATAAAATGGTACAATT

Sequence 1910

CCGGGCAGGTACCATACACCATGGAAGTTAGCCTTCCACCTCAGGAGAAAGCAAGCTGCT
CTCATAAGCCTCTACCAACTACCCAGTAGTCTTTGCCTCCAAACTGAACAACAGGAAAA
AGTGCCATAGTTTTTAATTAAGCTGTTTTAAAGTCCATGTTCCGGGAGAAAAACAAAAA
AAAAAAAAAAAAAAAAAAAAANGTACCT

Sequence 1911

TCAGCATTCTAAATCAAACGCAAACAGCAGAAATCATATGGCATAGACACTTAGCANATCC
AATGCCTTCCAGGCATCTGTTTCTGTTGATGAAATCCTCCCTATGGAGAGCAAACCTGGN
TCATATCTTCAGATAGTGTCAATCAACCCCTTGGCAGCTTTCTGGGCTACTAAATATCAC
ACCGTCTGGNGGGACATTTNACCCAAGTAGGCAAATGCATGACAGAACTCACTGGATCAA
TATCTCAAAATGCTGGGAAGAAAAAACGGTAACCAGAAATTCTACACAGAGTGAAACTA
C

Sequence 1912

Table 1

AGGTACCATACTTTGTTTTTATTCTTGAGAGGAACTTCGATCATTTAAAGCAGATATTT
 GCCTTCATCCCCTACCCCCACCCAATAAAACAAACCTGGAAATGCCCATTTACATATTTT
 AGCTTAATCACGGTCAACTGTCTTCTATCGCCACTTCACTGCTCACAAAATACACATATT
 TAAAAGTGAAAATACTGAAATATGTCTTCACAATACAGCTAATACCACCAGTAGAAAATT
 CACGTCACCATGTTTCAGTAGACAAACGTGAGAAGCAATGTGGTGTGAGATTGGAACTTG
 GGAGAGATTCTCAGAAATAAAGTAACCTCAATAGGTTGCTTTTTGCATAGTGCAAAATTA
 AACTTCACTTTATTTAGTGGAGTGACCCAATTCAATCTTATCTGGGGTCAACACAGCTG
 ATTTCAATTTGTGTTTGACCACTGCACATTTTGGCATCCAAAAAGTTAAGGAGAGGAAGTC
 AAGGGTATTATGGAGAACTACGAAAGACAGATGCCTCCAATAAAAGACTTTTTTTGGTGG
 TATTTGGTTTTGGGTTTGGNGGATGATTGGATCCCAAAAGAGAAACCACTTAAGATTT
 GGGAATCCCCCCCCAAAATTTCTACCTTNAGAAAGACCCAACAATTGTTGNTTNTGGNGA
 CAGCTTAATCACTGGAAGACTTTTGCATTNTTTTTTATTANAGAGAGGATTGGGTNGAT
 TTAAGATCCTCTTNTNCCTGCAGGTNTCCATTAAATTNCACNCAGATAATNNGGAAAA
 NNNTCCANATNATGGCATCCTATTTGCTNGCTTTTTTCCAATTGGAAATTNGATTNAAA
 NAAAAAATNNNNNNAGNTCTTTTTTTTTTTT

Sequence 1913

CGCGGTGGCGGCCCGCCCGGGCAGGTACTATTAATAATTAATGAGAGGTAACCCATGCA
 CCGGCAGGAAGTTCAAGGGGACAGAAGGGGCTTGCTCCACTCTGGAGCCCTATCTCCTCT
 CACCTCCTTCCTTCTAGTTTGACATGCGATCTTGCTCTCTCTTTTATAAAGTGCTTCCA
 GGCCCTTTTGATTAGGATGCTGTCTCTAAATCCTTCCTCCACGTACCT

Sequence 1914

CCGCGGTGGCGGCCCGCCCGGGCAGGTACGCGGGATGATTAATCTTCCCTTATCCACAAAC
 TTAAGTGTGGAGAAACAGGAGAAAGTGTGTGCCTAGAAGCTGGATTGAGGGACCCATGGT
 TACCCACTTCTACTTATGATTCCGTCATTACTGTTGTTTTAGGAAAATAAACAGATCTTG
 ATCTTTTCATAAAAGTCGATTCTTCAACAAGCAAATGGGAAAATCGGCAGGCCAGATAT
 GTGTGTATAGCAGCTACTGGTTGGAAATTTGGACACAAAAGTCTTATCTACCCAGCCTG
 TGAGCCACAAATCTGGACTGAGTATAAAAAAGAATAAACTAAATACCACAATGTTCTCA
 CTTATAAGTGGGAACTAAACATTTGAGTATGCATGTACCTCGGCCGCTCTAGAAC

Sequence 1915

ATACGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGGGGCCATTGAGAC
 TGCCATGGAAGACTTGAAAGGTACCGTAGCTGAGACTTCTGGAGAGACCATTCAAGGCTT
 CTGGCTCTTGACAAAGATAGACCACTGGAACAATGAGAAGGAGAGAATTCTACTGGTCAC
 AGACAAGACTCTCTTGATCTGCAAATACGACTTCATCATGCTGAGTTGTGTGCAGCTGCA
 GCGGATTCCTCTGAGCGCTGTCTATCGCATCTGCCTGGGCAAGTTCACCTTCCCTGGGAT
 GTCCCTGGACAAGATTTTACTCCCATAAACCCAGGCAGAAAGTACCT

Sequence 1916

CGCCCGGGCAGGTACTTGAAGCTGTCTATGGATCAGGTCATCTAGGGCAAGCAGGTAGAGT
 GAGAAAACTCTGGAGAGCTTCAGGACTTAAATGTGATCAGAAAAAGGATCCTTATAG
 AAGAGACTGAGAGGTAGGAAGGGAACAGAAGTGATATTGCAGAGGCCTGAGGCAGAACT
 GTTAAAGAGGGAGGCACCTGGACACTTTTGCTGTAGACAAGTAGCCCATCTAATCCTAAA
 GAGCCCCCTTGATATGGCCACTTAATGACGTATGAAATACTTCAAAAATGATTTTAAAG
 TGTTTAAAGTAATGGGCTTCTGTGTCATTTCCATAATATTATTCTGGGTGCCTGCCATGC
 GCAAGACACTAACATAGGTGTTGGATGTTTCAAACAAATAACATTTATTTGCAAACTCTC
 GTAAGTACTTTTCTTCAAAAANAAANATNNNNNNNANNAGGTCCCTCGGC

Sequence 1917

GCTCCCCGCGGTGGCGGCCGNCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTGGAGAC
 GAGGTCTTGCTATGTTGTTTCAGGCTAGACTGGACTCCAGCCTCAAGCAGTCTCTACTGC
 TTCAGCCTTCCAAGTAGCTGGAACCACAGGCACACACCACTATAACCAAGTTTATTTTACA
 TTGTTCTTGTAATCTGGTATCAGTGATTCTTATAACAATATGCTCTCAATTTATTTTAA

Table 1

GCATGTTGAGACCTTAATGATAACTATTCAGAAACCATACTAAACATTTGATCTTGAAAT
CTTCCATCGTTTTCCATCCTCTGCTTATGCCTCAGTTATTCCATTGCGATGATATGGGCA
CTTAATTTAGCCAACTCACTGACCCATTTT

Sequence 1918

CCGGGCAGGTACTGTGATATCCACATATTTTTGAGAAAAATTCCCAAGCCAGGCGAATGT
GGATTGGAATAAAGACATAGGCAGTGTATACCACCATAGCAATAATGGTTAGTAAGATGG
TGTTAAACATAGATCGCTCCCAGGGCTCTAAACAGCACAGCAGCTAATGATTTGGTATT
GATAGTAGAGCCAGGAGAAATATTCCTTCACACGCCTCAAATCCATGGTTGGCTCCTTCA
AGCTGCAGTAAGTTTGTCTAAGAAAGTCCAGGTCTGGTTCTTCAGCCTTGCTCCTTCGC
GAAATGATCCTGTGTGGGTTAAGTTCTCCTCTCTGGGTTGCTGTTTCCTCATCTCCAGT
TGGGGTGTATCTTCCCTGCGGCTTAGGTGAAGCGCCCCAGGCTT

Sequence 1919

AGGTACAAGCATATAATGCCAACTGGTAAAGTCAGAACTCCAGATGACAAGGTACAGCAT
GTAATCTTTTGCAGTCTATTGACAGCAATCTAAATAAAGCAAAGGAAGATGCTTCCAGT
ACTACAACTTTATGGGAACTTAGGGTCTCTCAAAGCCACACTGTTTTGGGTCACTAGCA
GGAGGTACAGTATATTAAGCAAGCAGCTCANCTCTCACTAGTGGTGAGATGTATGAAA
ATCCTGGCAATGCCAGGGGGAAGAATCTATGAGTCTTCCCTTCGGTCATCTCTCCTAT
TTCTTGCAATTAGTTTTTTCAGGGTTAAATACACATCTCACAAGAAGAAGCTAGCTATATA
TGGGCTGGGTTGGTCTTCAATNGAATCTNCAAATGTATCA

Sequence 1920

CCGCGGTGGCGGCCGAGGTACGTGGCGTAGCATTCCATGTTGAGCTTTGACATTTATTTT
CTCATATCAACCTTTTTACACGTGAAACACAATCTCGCTCTTGAAGTCTTAACTGCATG
ATCTGTGAAACCTGTATTTATTTTTCTTCAGTGTATTCTTGTGCTGTGTGTCTCTAA
CAAACCAAAAGAAAACCTTCCAAATCTAAAGTATTCATTCTCCAATTGGAGCAAGAGGAG
TCAGTTAGATACTATCACGGCATTCAATTTGTGGCTGGCTTGTATATTTACTTATGATTG
ATAATAAATCTATTTTGTCTTTTAGAGCCTCCCAGAAAGCCATCTGCCTTCGAGGTATTT
AGTTTCATGATTTTCATTTTGAATGACTTATTAATATGATTTTGGNGAAGTATACATT

Sequence 1921

NCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGTCTGTTGT
CTTCATCATGAGATCAGAAAACCTATGCTGCTCCCTAACTATGTGACCTTGAGCAAGTC
TCTTAAAGGAGAACTTCAGTTTCTGTATTTGGAGAAGAAAGAGATCATGGTAGATGATC
CTCTTGAATTGGCTTCAGGCCTCTAAAATCTGTAGTTTGGTAAAAATGCCTAATGACCA
AATGGAGGCAAGATCTCGTTACCAAGATCATGGTGGCTTTGGAAGTGACAGAGATGGCTG
AGACCAGGAGGCTGAAATGAAATTAAGTCCTATGATGTTGCTTTAAGTTAATGCTATCT
AAGAAAAGGTGCTGGTAGAGGAAGTGGGGCCCCAACTTGGCTTCATAGTGATTGGAGTT
TCCAAATCAATGGAATAGG

Sequence 1922

AGGTACGTGAACTGCATCTCTCACTTTTTCTCTCTCTTCGGGCAGTGCTAGGAAGATTA
CTCACAAAAAGTCAAATCACATCCCCATTCTAATGTTGGTATTTCTGGGGAAGCCTTAT
GGAAAGCTGCGTTTTTTCATGGGGGAACACTTTTGTGCCATGGTTTTACAAAGCTAAGA
ATTTCAATAGTCAAACCTGTTGCCATAAAAAATCAAACCTAGGAATAGAAGCTAAACATGT
TATTAACAGAATAGGCTTGAGAGAGCAAGAGAATTCTTTGGAGTAAAGTTATCCAAAGT
CTATGTGTTCTCCTTTGACACATAAATCTACTATCGACCTAGTCTTGGACTTTTTTTTG
GACAGAAATTGGGTAAGTTTTGCAAAAGGACAGGCACAAAGCC

Sequence 1923

ACTATAGGGCGAATTGGAGCTCACCGCGGTGGTGGCGCGCCAGCGCCGCTCGATGCGCG
GGATCTTGCAAATGTCGGTGCCGATGCCGTAGATCATGGGCTAGTCCTATTCCCTATGCT
TTGTTGCCAGGCGCGCAGCCACCATGATGGCCTTCATTTGCGGCACGGCGTTTTCCAG

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Table 1

CCCGACAAACACCGCATGCGCGACGATGGCGTGGCCGATGTTTCAGCTCAGTAATATCGGG
AATGGCGGCGATCGCCTGCACGTTGGTGTAAATGCAAGCCGTGGCCCGCATTGACCTTCAA
GCCACGGCCACGCGGAACAGTACGCTGCTTGATGCGCTCCAGCTCCGCAACTGCTCG
GCGCTGCCGTATCGGCGTAGCGGCCCGTGTGCAACTCGATCACGGGCGCACCGAGTTCG
GCAAGCGGCGGCGATCTTGTTGCTCGTCGGCATCGATGAACAGGCTCACGCGGATGCCCT
CGCCCTGCA

Sequence 1924

AGGTACAATGGGAACAAGGAGATAAGCAGTGAAAGGCCAAGGGAATGTCTGGAGTTAGGA
CTTCAGGTGATTCACTTGGCTGCCACTCACCCGAGACTGCCCAAGCCAGATTTCTT
CCTTCTATAAGAATATTGATTCTTGCAAATAAGATGAACCTAAATGTGGTCCAGGAGTCA
GCATCTTCTACATGGTACCTGCCCG

Sequence 1925

TCGACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAGGTTCAAAT
AGTCAGCAGCTCATCATAATCAATGAGCGAGGACATAAAGTAGGAAAAATGCATCACCAT
GGTGAGCAAGGAAAGCAAGTTATTGGAGGCACATGTTAACACATAAAATATAAAATTAAT
ATGATCACACTGGAAAGGCTTGCTGAGCCACAGTTTGAATGCCTACAATAAGATGAGA
TGACAAACAAAAAGCAAGAGAACCTGATCAAGTGGGTGACCTGGCCATGGTGCTCTCATC
AGTGGGGACCCAAATGCTTATGTGGACTCACAGGTATCGAATTAGACATGAATAGGAGT
GTTTGTTGTGATCCAAGGAACTATATAATCAAAATGAATACAATGAACTTTAAAAATA
ATTGTAAGGATCTTTACACCAGCCCA

Sequence 1926

CCGCGGTGGCGGCCCGAGGGTACGCGGGGAATCTTACTCCCTCGTAGAACAGGCGATATC
TTCACCATGCGCACAATGAAATCAATACTCAGAGAAGGCAGATAATTCTCCACGAAGCCA
GAAAACTAATAAATGAACAACCTTGGGTGAAATGTCCACACAGCGGTGTGATTTAGTA
GCCCAGAAAGCTGCCAAGGGGTTGAATGACACTATCTGAAGATATGAACCAGTTTGCTCT
CCATAGGGAGGATTTTCATCAACAGGAAACAGATGCCTGGAAGGCATTGGATTTGCTAAGT
GTCTATGCCATATGATTCTGCTGTTTGCGTTTGATTTAGAATGCTGAGCTGACTCAAAGT
CAAATAAAAAAAAAAATGAAATAAAATAAAATCTTTATTTCCAATGAGCTAATGAGGA
AAAAGGGGATGATGAAAAACAGGGAGTGGGAGCAATTTGGAATGGAAAGAATGCTGAA
TACCTACATGATGCCTAATTCAGAAGAACATTCTGGTATGTAGGGACATTAT

Sequence 1927

CAGGTACTTTNTTTTTTTANNTNNTTTTANTTCGCAATACCAGCTTTNACCCTGNCT
CTGCACTGCTTAGCCTNGGCTCTGCTGAGTNGTGCAACACATTCTGANAGATGCCATACA
ATGCTCCAGGCAAACTTATAGAAAAACAGGAATGAGTGATTTTATACGGGATGTGTTTCA
GCTGTCCAATNCAAAATAAATCACGTCCAGGTGCATTCTTTCCTAATTTGTGACCCAAAC
TGCTTGCACTTTATACATTAATGAATTATTTTTTAAAAGAAATTAGCTCTATCATGAAG
ACAGGGCTATCTAACCCTTTGGTGGTCTTTNTCCCTTAAAAAGCAATTGTTCCATTTTAT
AGGTGTTAGGTTTAACTACATATTTGGAATGAAGCTNAAATGAACTAACNTATGTNAAC
CAGTAAAAGCAGGACACTTAATANTAATGCTTCCCTGAAATNTACATTGNGCATATGTA
GGCTCTTTTTGGCATTACCAAATTTTCCAAGAACCTTTTTTGTGTTTAAATTA

Sequence 1928

TCACTATAGGGCGAATNGGAGCTCCCCGCGGTGGCGGCCCGAGGTACAGGGAACTATTGG
AGCACCTAAGAGGAGCACCTACCTTGAATTTAGGGGTTAGCAGAGGCATCCTGAAAAAG
TCAAAGCTAAGCCACAATCTATAAGCAGTTTAGGAATTAGCAGAACGTGCATGGTGAGGA
GATGCCAAAGGCAAGAAGAGAGATTTCCAAACAGGAGGGATTCCAAAGAGAGAAGAG
TATCCCAAACAACATTTGCACAAACCTGATGGGGAGAGAGAATGTGGGGTGGGGATGGAT
GATGAGACTGAAGAAGAANGCCAGGTCTAGATAATCA

Sequence 1929

AGGTACCATGATTAGTTAAATATAAGACTCCGTAATTTTACAATTTTAAACAATAATTTT

Table 1

ATTTCTTCAAGCTTGTAGTTTGGGATTGTATTTAACTCAGTGTGTGACTTAGAAAATG
 ATAATGCTGCTTTATGGAAAATGGATTATAGGTGGGTAAGACTTCATTGCAAAAATTGTG
 TAATACCATCAGTGTAGGAACCCAGTTGAAGTCTAGAAGACAGATGTTAGTATCTTAGA
 CTAGGTTGGTATTTGAATAGATATTGGTAATATCAGTAGAATTTAATAATACATTAGAAA
 GAAAGAAATCAGAGAAGATCTTTTATTTCACTTGATACTTGNGGTGGTACTTTCAATGAG
 ATAAGAAGGGCAGGCCAAGGAGAAAAGTTCAGGGGCAGGGGATGAGAAAAACAAGAATT
 TTATGTTGGACATGCTAAGTTAAACACCTGCTTAACCTCANATTGGCTTCTGTGGAAGCAG
 AGGCTGACATGAGGGTGTATGAAAATGCTTTTTTGGGAAGCCATTGCAGGAGGGAAT
 CTCTTAGGAAGCCAGGGGAAGAAAGGAAAGAGAA

Sequence 1930

AGGTACTTTTCCATATTTCCACATACTACCAAGGATTTTCAAGTGTAGGAGTAATTCAAT
 CAGACCCTTTCTTTCATATGAGAATTTCTCAAAGAGTAGAATAAATGGAACACAGAAAAGA
 AAAGACTTTAAGCAAGGGGCTTCTTGAAGCCACTGCAGCAGTCCAGGCAAGTGATGCTG
 AAGGTCTGCAACAGAACAGGGGCCGAGAGTGGAGAAGAGTGGGTAACTATCATATTAA
 AGAGGCCAACTCAGACTGGGGGCAGTGGCTCACGCCTGTAATCCCAACACTTTGGGAGG
 CTTAGGCAGGCGGATCATGAGGTGAGGAGTTTGAGACCAACCTGACCAACATGGTGAAAC
 CCCATCTCTACCAAAAATACAAAAAATTAGCCAGGTGTGGTGGTGCGCACCTGTAATCCC
 AGCTACTCAGGAGGCTGAGGCAGGAGAATCCCTTGAACCTGGGAAGCAGAGGTTGCAGTA
 AGCTGAGATGGTGCCACTGCACTCCAGCGTGGGTGACAGAGAGAGACTCTGTCTCAAAAA
 AAAAAAAGTACCTGCCCGGGCGGCCGCTCTAGAAGTAnnnnnnnnnnnnnnnnnnnnnnn
 nnnnnnATATCAAGCTTATCGATCCGCGACCTCGANGGGGGGCCCGGTACCCACTTTTG

0

Sequence 1931

AGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTNAAAGGTGAAGTTTCACTTTGTCACCC
 AGGCTCAGTCTCAAAACAAACAAAAAAATTTGGGGGATCTTTATTTTCATGCTTTCTCT
 CATTAGAAAAGAGAGGACAATAAAGTGTAGAAGATAATAAGCACAGAAGTCTAGCCA
 GTGTCTTTGGAAAATGAAACGGCTGTGTGAATTTTTATCTTTTGGCACCTCTTTTAAAA
 ACTCCACTTAATGACCTACCTGCATTACTGAAGTGTCTCTTGTGGGGTGATTGTAGTTA
 TNTCTTGGGTGTCCATGCATCTGTGGGCCATGGGAGGCAGGCAATGAGGCTTCTGAGGG
 TNAAGGTTGTGNAGGNATGGGACTGAGATATCAGANAGTCCCGGCNGGAACCTGAGGCC
 TTNGGACCAAATGGTTTNTTACCCCCAANNCANGNCGNNTNTCTTNNTTTTGCTCCNAAA
 GAGGNAAAAGGAAAACCAAANGAGCTTAAAGANCCAGGCNTTAAATCCCCCAGAAAAA
 GAAAAAAGGNTTNNANCTCTAAACNGCTNCTTTTTGGCCNTTNTTAA

Sequence 1932

CCGCGGTGGCGGCCCGCCGGGCAGGTACTTTCTCTCATAGGGAATTTTTTTTAAATTTT
 AAATTTTAATTATTTAAGAGACAGGGTCTCACTCTGTCACCCAAGCTGGAGTGCAGTGGT
 GTGATCATGGCTCACTGCAGCCTCAAACCTTTGGGCTAATGTGATCCTCCACCTCAGCC
 TCCCAAAGTGCTGGGATTACAAGCATGAGCCACCACCCGGCCATCCTAGATGATTTT
 TAAACATCACTTTTCTCCTGGCAGAATTTTCTGACTCTGTAGTTCTTGTTAACTTCCAGA
 GAAAGCCCTGAGTAAGCCAGACCCTAATTACAAACATGCCTCAGTGGATGAGGCTACAAT
 TTGAGTCCAACTGCTCAAGGTTCACTGACAAAGTCTCACACCGTAAACCTGAAACAT
 CATGTTACAGTCTGAGGCCTGCTCCGAGCTGGGTAAGAAAGGCCTCGTGAATGCAGCCCC
 CTGGGCAGATGAGGTTTGGGCCTTACCCCTTTGGGACTGCCTCCTCATTGCTCCTTGGG
 AAGCAGCCGCGCTTGCTGCCTGTGTCTTTGGGAAAGTGAAG

Sequence 1933

AGGTACAATATAGGCAGACAGTTTGCCTTCAGAAATTCAGAAATGCAGCTTTTGGGGAG
 GTCAGCATCATTTGGTCTCAGCTACCATTTTCTGCAGGATGTTTATAAATAGTTCTTGGC
 AAAGGAGGTTGCCGTATAGGGTCTACAAGTAACCTAGGTGGCAGCATCTCTCCAGCG
 TCAGGACTAAGCACACAAGTTCTTCTTCCATCTACCCCGCGTACCTGCCCC

Table 1

Sequence 1934

CCGGGCAGGTACCTTCACAGCTGCACCACACCAGTTCTGGGCACATGGACAACAGATCAA
GCTCCCCCATCATCACATAAGTTAGGCACCAAAGAGTTAGCAAGGGTATTCAGTTCCAC
TTAATTGATTGCATATCATGCAGGCTCTGATTTCAGTACCT

Sequence 1935

GANATGCTGCCACCTAGGTTACTNGTAGGACCCTATACGGCAACCTCNTTTGCCAGGAAC
TATNTATAAACATCCTGCANGAAAATGCAGNGAAGTNGAANAGACAGGGATATCCATAA
GGTTATGCANGAACATCAAGAGAAGATGAGAGGTCANAGATGGGAAGAAACAAGAAGTTT
GACATGCTTGGTGTCTTGCCCAAGCTTTGAAGAAGTTTACAAAGTCTATATGTNAGAAT
ACANATTTNCCACCTTGCCCAACAGTAGAAAAACATAANAAGANAAAAACATTAAAAAAT
GACAAGGAAGTTAAT

Sequence 1936

CCGGGCAGGTACCCTTCACTCTTTAGGAGAAGGTTTGAACAAAACTGTGTTTCTGTG
AAGGCCAGTGATACCTGGCAGCTTACAGTTAGAAAACCTCTATAACTTTATTATTTTCATT
TGCACTTAAACCTGCTATGAGTTTTTAAATGCAAAAAATAGTGATTGAGAAAGAAAAAG
TGAACATATTTATATTCTTCCCCCTCAGAGAGAAACGCTGTTAACATTTTGTGTATTTG
GTCCAGGTTCTTTTCTGTGTGTGTAAGCACACATATGTGTTTATATTGTATAAAATAAGA
GATTCATGCTGGACATACATTGTTTGTAACTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCC
TGAGCTAGGGTCTCGCTCTGTCAACCCAGGCTAGAGTGCAGTGGTGGGATCTCAGCTCACT
GCAACCTCCGCTGTCTGGGCTCAAGCGATCCTCCACCCCAAGCCTNCCAAGTAGCTGGGA
CCACAGGCACATGCCAGGATGCCTGGCTAATTTTTGTTATTTTTGANAGACAAAGTCTT
ACTATGTTGCCACNTTGGTCTNNACTCCTGAGCTCAAGCNATCTACTCACCTTGGC

Sequence 1937

CCGGGCAGGTACTCCATGCCATGCTTGTCTCAGTCTTGGTTGTGTTAGCCCTCTCCCT
GCTCATGCCCCAGTTCCTGAGCAGCAGCTTGAGTTTCTTAATGCCTGGGATTGGCAAC
CCTGGTAACAAGGACCATGAACACTCTATTAAGAGCTAGGATTACAATGGCATCTTGCT
ATAGCTGCTTAGGCTTCAGGAAGGGTGTGGAACATAAAGCATTTCCTCCTTGGAGCAG
TTCCTTGTCTCAGTCCCCTGACTGCTCCCTATGCTAGATTCAAGGATTGAGAGGGTCAAA
ATGCTCTCCCAAGATCTAGATTGTATGATTCCCCAGTGAGAAAATGGACCACAGAAAAGC
CATTGCTTACTTTCTCCTGTATTATAGAGTCACTCCTGATTTCAGCTGGTCTTGGTCAC
ACAGGCTGGCTGTTTTCTTTCTTCTTCTAGTTT

Sequence 1938

GATGGAAGGAAGAACTTGTGTGCTTAGACCTGACGCTGGGAGGAGATGCTGCCACCTAGG
TTACTTGTAGGACCCTATACGGCAACCTCCTTTGCCAGGAACATTTATAAACATCCTGC
AGGAAAATGCAGTGAAANTATAAGAGACAGGGATATCCAGAAGGTTATGCAAAACATCA
AGAGAAGATGAGAGGAGTCTATATGTCAGAATACACATTTCCACCTTGCCCAACAGTTT
GAAAAAANAAAAAANANAATAAAANGTTCTTNGCCGCTNTANAAC TAGTNGGATC
CCCCGGNG

Sequence 1939

CCGCGGTGGCGGCCGAGGTACGCGGGGACAATGAAATCAATACTCAGAGAAGGCAGATAA
TTCTCCACGAAGCCAGAAAATAATAATGAACAACCTGGGCGAAATGTCCACCAGACG
GTGTGATATTTAGTAGCCAGAAAGCTGCCAAGGGGTTGAATGACACTATCTGAAGATAT
GAACCAAGTTTGCTCTCCATAGGGAGGATTCATCAACAGGAAACAGATGCCTGGAAGGCA
TTGGATTTGCTAAGTGTCTATGCCATATGATTCTGCTGTTTGCCTTTGATTTAGAATGCT
GAGCTGACTCAAAGTCAAACCTGTAAGTACCTGCCCG

Sequence 1940

AGGTACGCGGGGAGCTAATTTCTTTTAAAAAATAATTCATTAATGTATAAAGTGCAAGC
AGTTTGGGTCAAAATTAGGAAAGATGCACCTGGACGTGATTTATTTGAATTGGACAG
CTGAAACACATCCCGTATAAAATCACTCATTCTGTTTTCTATAAGTTTGCCTGGAGCA

Table 1

TTGTATGGCATCTCTCACAATGTGTTTGCACAACCTCAGCAGAGCCAAGGCTAAGCAGTGC
ANAGGACAGGGTGA

Sequence 1941

GGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATGCCCTGTGGCCCCCATCTGAC
ATACCACCAGAGATCTGGTTATCACCTGGCCCATTGACTACCACAGCCAGCCTTGCTTGA
CATGCACCACCAGGGTCCCTGAGGACAGGTCTGCCCAATTAAGCTCCACCCTACCACAGT
GAAAAACAAAAAGAAAGAAAGAAAGGAACAAAGGATATTCAACACAACCAGAAATCAATA
AATAAAATGACAGGAATAAGCCTTCACATATCAATAATAACCTTCAATGTAAATGGATTA
AAGTTTCCACTTAGAAGATAGAGACTGGCTTGAATAGATTTTAAAAATGACCTAATTACA
TCCTGCATACAAGAACTCATGAGGGAATTCAAAGGAATT

Sequence 1942

CCGGGCAGGTACTTGCAAGAAACCTCAGGACTTGAGTAACAGCAACATGGTAAGTTTTCT
AAGTTTTCTTTTCGTCTCCCATATACGCTGGGCTGNGCTGGAATCACCACAGGCACAGA
AAAAATGACAACAAAACANCAACANAACCCCCAAGAATATCCTGTTCTCTTTGGCCAAAG
TCAGGAAAGGGGAGCCCCAACAGAGACCCAGTAGGAAGCTCTAGCCCCTGTTTTGTACCT
CGGCC

Sequence 1943

AGGTACAACCTTGACAGTTTATAAAAAATGCTAACCTATATCAACATTTTTCCCCACCAAAG
TGTTTCNNAAGGGCAANGGTAAGNGAATACATGTTTNCNTGCTTGTGTGTCAGGGGCACACAG
CAAGGGAAGGCANAAATGGGCATGACCTAGTATTNAGAATCCCCAANAAGCCCTTTCATA
ATTCCTTAATAAANGAACTTTGNGNGACCTTGCAATTNNTTAAANANATNAAATTAATT
TGGGTTTCATNTTTCTTTAATNTCTNTGCCAATTAAACTATATAAGTAAATTGGGGAAA
ACCNCANAAATTGCNCATGNGNCTTTGGTTACTTTGNAATCTTCCTTTTTTGGACACCCC
AAGNTNTGGCCTTCCTTTTCTNCCNTTAAANTTGATNCCNTTAAACCAATCCTTGGNCC
CCTTNCNGGTTTTCTTTTAAATTGGNAAAATTTATAATCNNTTCNATGGNNACCAATTTTAA
CCAATNTATGNAANATAGGNAACCTNAAATTTTGGGTTNTTGGTNTTNCAGTNTTTTCA
AAACNATCTTTTCCAAAATTTTCCCAATT

Sequence 1944

CCGGGCAGGTACTTATTTTTATATTAATGTCAGACTTCAGGATTTATTTTAGCCTTCCTT
TTTGAGAAGCTTTCTAAGCCCTCAGCATTAAAGCAGCATTTTTCTCATCACACACGGATC
TGAGCAGGTGACCGCGGCTGGGATAGGTGCTGTTTGTGTAGTGTGCAGGTGGGCTGGCC
AGCCATTGGGTGTGTGTTTTCTAGAGTAAGAAGCACTCCAGGCTGAGATGAGAGCTGT
TGAAATGAGTAACATTTCCGCTCCTGTGATACGCGCTGCTGTTGCNTTCTTTCAA

Sequence 1945

NCTTTNCAGTCGGNAAAACCTNGTTNGANGCCAAGCTNGCATTTAATGAAATTCGGCCCC
AACGCCGCCGGGGNGGAGAAGGGCCGGTTTTTTNGNCGTTATNTTGGGGGGCGGCNTTCTT
TTCCCGCCTTTCNCCTNCGGCNTNCAACTTTGNAACCTTCGGTCTNGNAGGCCTANCGGG
TTNCAGNTTCNNGGCCTTGNCCGGGNCNGTANNCCGNGGTTATTTCNAGGTCTTCCATC
CTTTCAAAAAAGGGGGCCGGGGTTANATTAACCGGGGTTTNAATCCCCAACCAAGNAAA
ATTCCAANGGGGGGGGAATTAACCGGNCCAAGGGGNAAAAAAGNAAAAACNAATTTGG
TTNGGAAGGCCANAANAAAAAGGGGCCGCAAGGNCAAAATAAGGGGGCCNCAAGTGGNA
AACNCCCGGTTAAAAAAGG

Sequence 1946

AGGTACCTTTGTTCTTCTCCTCCTCCATCCTCCCAGTGCCTGTGACTGGAATGGTGAAT
GGCACCGCTGGATGGGTTTCTGCAGATGTGGAACAGCCAGGAAGCCAGCCCTGTCCAAAT
TGAAGTGCTTTCTGTAGGACCAAGAAGGGTCAATTACTATTAGTGGTAGACTTCACAAGC
CAGGCGGTAGGAAGGCAGGGAGAGCCCTATGAGAACTGAGACCGACTACCTGGCATGTG
CTGGATCCATGCATAAAAGCTACTGTATCAATGTTTCAGTTGAGTGAATGAAAAA
ANANNNNAANANNNGGTCCCTGCCCG

Table 1

Sequence 1947

TACTATAGGGCGAATTNNAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAGGGAGA
CAGCATGCAGGGTGTGTTTCAGAAGAGCTTGCTGAGGTGCTCGGCTCTTAGCATTAAAAAT
GTGATGTTGGTATATCATCCTGATAGAAAACACTGCTTTCCAAATCCTAGTCACTGGATG
GGAGGAAAGTAAGAACAGATTCTGCCAACCCTACTGATTGTTATAATTCTCCCCATTG
AAATTGGGACAAAATTTGTAACATGCTACTCTGAAATTGATCACATTCTCAATTCTGTCA
ATAGCAGAGAATTTAGCCTCAACACCACCAATTCAAAATAGTTTAGGTCTTGCCCCCTGCC
TGATTATGTAACAGAAAAGCATAAAGTTTGCAGGGTGGAGCGGGAGGATTTTTCTAGGAA
ACTTCCTTCTCTTCCATTAACGTGTG

Sequence 1948

TAGGGCGAATTGGAGCTCCCCGCGGTGGCCGAGCGGCCGCCCGGGCAGGTACTAATTTG
TAAATTAAGAAGTTGTAGAACTGTGAACATCAACTATTGCATTATAGGGAAAAAGTTAA
TTTAAAGAATAGGACAAGGTAAACTTTTTAAAAAATTTTGCAGTGGAATATAAGACAA
AAAAGCATTTCCAGAAGTTTGACATTCAGTAGAAGCTCTCTCTGTGCCTCTCTTTTCCAC
CATTCACTGTGTTAAAAAAGACAATATTGAAATATTACCATCAGTATTATTGACTGTTG
AAGACTGGGCCCTTGCTGTAAGTCAGGCACCATGCTGGATGCAGTAAATGTATGTCCTAT
TTCAAAGGTAAAGCCACTGCATCTTGACACACAGTTTGGGTTCAAAGCTTTAAAGAGT
AACAAGAAGTTTGCCCAAGCTTAGTCACATCACTGAGCAAAATCCACCGGATAGAATGA
GGTTGAGATCTCTGAGAAAGCAAAATACTAATTGACAGTAGCAGTTGGCGGGTCATGTTT
TT

Sequence 1949

GCGGCCGAGGTACTGATCTAACCAAGATATTTTGTCTTCTCACCCACCAGTNACTTTCT
CAGTCCTTTCTGTATCCCTTGCAATTTGAACAAAGCTTGGTGAATAGTGTGCACACAAAA
AGCACACTAGGTGAAAGACAGATACATAAAAAAGGTAAAGNCAGGATATTTTAAACANCC
TATCAAGCTCTAAATATAAGCCTCCTTGGTAGTTTCTCTTTAACCCTCTCTCCACTGTT
GGATGAAATTTGCTGCATTCAATTCAGNTCCACCCCACTTCTTCTTAACACAAGGN
CANGGTTAAGCCTTCGGTGCTTTAATCCAGAGGAAAATTACTTATTTTAAAAAGCAGTGA
AAAACACCGCATTCCTTTGGCACAGG

Sequence 1950

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGAAGCAGTGGTAA
CAACGCAAGACTTTTTTTTTTTTTTTTTTTTACTGCAACAACCTAACAGGAAAACTAA
TCAGAGATCATGAGGAGAGTGGTATATCAGTCAGGGACTAATCAGGAACATAATCCACTT
GAGATTTTAAATAGAGAGGGCTTAGGCTGGGGAGTTGGTGACAGCATAATGGGAAATCT
ACAAAGCAAACAGGAATAGGGAGACAACCCAGAGCCCATCTAGGCTGGCAGAGTCATCAT
CTCTAGGCTGGAAGGTCANAANAAGGTGGTGTTAGTGAGGCCAGGAGATGCACAGTCTCC
CAGGGGAAGCTGGAGCTAGGGTGTACCTGCCCCG

Sequence 1951

ATTTAGGGCGAATTGGAGCTCNTCGCGGTGGCGGCCCGAGCACATAATGCAGTATACGCCC
AATTAAATTTGAGACTCACAGAGTTTATTAGTGGCCACCTTGCCAACCTCTCCTATTAG
AGATGAAGAGACTTCCAGAGGTCAACCGCAAGTTGACAGCAGAGATGCAGTAGGAACTG
AAGTGAGGCAGAATTTGAGGATTCAGGTCCATGGGGAAGATAGTTTGCTGAATGAAGGAG
CAGTGCTTTAGGGAACAATTTAATGGAATTTAAAGACAGAATAATCAGAACTGGATAC
ATAGTAGATACCAACTGCACCTTGTTGGGAATAATTCTCTGGATAGTATCTGGCAGTCTTC
AGATACTTTGCTGTTATCCTGGCTAAACCACATAAGTTGTTGTGTGTTGGTTCACAATCT
GATCTTGCAAGATGTAAGTTAGAATCTTGACAGTTTTTTTTG

Sequence 1952

AGGTACGCAACATGACATTGGCTGGTGTAAAGATCTTACAATTATTTTAAAGTTTCATT
GTATTCATTTGATTATATAGTTTCTTGCCATCACACAAACACTCCTATTATGTCTAAT
TCGATACCTGGTGAGTCCACATAAGCATTTGGGTCCCCACTGATGAAGAGCACCATGGCC

Table 1

AGGTCACCCACTTGATCAGGTTCTCTTGCTTTTGTGTGCATCTCATCTTATTGTAGGC
ATTCAAACGTGTTGGGCTCAGGCAAGCCTTTCCAGTGTGATCATATTAATTTTATATTTAT
GTGTTAACATGTGCCTCCAATAACTTGCTTTCCCTTGCTCACCATGGTGATGCATTTTCC
TACTTTATGTCTCGCTCATTGATTATGATGAGCTGCTGACTATTTGAACCTGGTA

Sequence 1953

ATCACTACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCTTCACGGCCGAAGCC
CGATTGCGGGTAACCGCCGAAGCCGCAAGCCGCGTGAAGTATTGGCGCTGTTGATCCA
CACCACGCCAGCCTTGATGGCGGGAGCGATGTCCAGCGCGAGGCTGATCGACTCGGTCCA
CACGCTGGCGGCCAGGCCGTACACCGTGTGTTCCGCCAGCTGCACCGCTTCAGGCGGCGT
GCGGAAGCTCATGGCCACCAGCACGGGGCCGAAGATTTAGCCTGTGCCACGGCGGCCGA
GGTCGACGCGCCCGTGATCAGGGTGGCGGGGAACCACGAGCCGTGAGCCGGCAGTTCGCA
CGCCGGCTGCCATACGTGCAACCTTCGGCACGGGCAGAGTCGACCAGCGCGGGCGATGCG
CTGGCGCTGCACGGGGTCAACCA

Sequence 1954

CCGGGCAGGTACTTGGTTTTNTTTTTNTTTTTCTTTTGGCTTTGACTTTGAGTCAGC
TCAGCATTCTAAATCAAACGCAAACAGCAGAATCATATGGCATAGACACTTAGCAAATCC
AATGCCCTCCAGGCATCTGTTTCTGTTGATGAAATCCTCCCTATGGAGAGCAAACCTGGT
TCATATCTTCAGATAGTGTCAATCAACCCCTTGGCAGCTTTCTGGGCTACTAAATATCAC
ACCGTCTGGTGGGACATTTACCCAAAGTTGTTCAATTTATTAGTTTTCTGGCTTCGNGGAG
AATTATCTGCCTTCTCTGAGTATTGATTTCAATGNGCCCCGCGTACCTNGGCCGCGACCA

0

Sequence 1955

CGCGGTGGCGGCCGCATACACGCGGGCGATGACTTCGTGCGCGCGGTTCTGGTCGATGGC
GCGCGTGACGATGGGGCTGCGTCCGGGCGGCAGCTCGTCGATCACCGACACTTCCAGGTC
GGCGTAATACGTCATGGCCAGGGTGGCGGGATCGGCGTGCCGACATCATCAGCTGGTG
CGGCACGGC

Sequence 1956

GAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTAAGTCTAATCAAGATATTTTGTTTT
CTCATCCACCAGTCACTTTCTCAGTCCTTTCTGTATCCCTTGCAATTTGAACAAAGCTTG
GTGAATAGTGTGCACACAAAAAGCACACTAGGTGAAAGACAGATACATAAAAAAGGTA
GTAGGATATTTTAAACAAACCTATCAAGCTCTAAATATAAGCCTCCTTGGTAGTTTCTC
TTTAAACCTCTCTCACTGTTGGATGAAATTTGCTGCATTCAATTCAGTTCACACCCCA
ACTTCCTTCTTAAACAAAGGTGAGGGTTAAGCCTTCGGTGCTTAAATCCAGAGGAAAAT
ACTTATTTTAAAAAGCAGTGAAAAACACCGCATTCCTTTGGC

Sequence 1957

CCCCGCGGTGGCGGCCGAGGTACGCGGGGGCCCTCAACTTCTGAGAGCTTAAGGTATTTG
TTCATGTTAGGCAGGTAATGTCTATAAACCAAAAGCTGCCACATACTATCTCTGCTCA
ACACTTTACTGGATACTGGAGGATTTAAGGGAAGGAAAAAGTGACCTTTTTGCCTTTT
TAAGAGCTTGTAAATCGGTAAAGGAGATAAACTCACACAAAGGTGAGGTATATTTGTG
CTAAGCATATGACCGTAGACATTTAAAGTGCTGCCCGTAATGCAGAAAGAAGAAGAAAGT
GGTGTGATCTAAAGTAACATAGGTTTTGGTTTTGTTTTGNTTTTTGNTTTTTCTTTT
TCTTTTTCTTTTTCT

Sequence 1958

CCCCGCGGTGGCGGCCGAGGTACGCGGGGGTAGATGGAAGGAAGAACTTGTGTGCTTAGAC
CTGACGCTGGGAGGAGATGCTGCCACCTAGGTTACTTGTAGGACCCTATACGGCAACCTC
CTTTGCCAGGAACATTTATAAACATCCTGCAGGAAATGCAGTGAAGTAGAAGAGACAG
GGATATCCAGAAGGTTATGCAAAACATCAAGAGAAGATGAGAGGTGAGAGATGGGAAGA
AACAGAAGCTTTGACATGCTTGGTGTCTTGGCCCAAGCTTTGAAGAAGTTTACAAAGTCT
ATATGTCAGAATACATTTCCACCTTGCCCAACAGTAGAAAAACATAAGAAGAGAAAA

Table 1

ACATTAAAAATGACAAGGAAGTTAATGGAAGTCAACAATGTGATGGTGTGTTGGANGTGG
AGCCTTCAAAAAGGTATTAATGCCCTTGTAAGAAGAAGGCCAGAAAAGCTTGC GCCCTT
CTTTCTGCCCTGTGGANGGAGCCCAAGANNCCGGCTGGTCTTGCNACCTTGCAAGAAGGA
CCCCCTACTTAGAAGCTAGGCCNTACTTGGGCTTNCCTAATCTTGGGCTTTCCNACCTT
NCAGAACTTGTGANNAAAGTTNTNTTGTGTTGGGGTTAATCCAATGGGCTATNGGAAATTT
TTTTATNACCNNNCCCNNGCCAAGANAGGGCCCTTATTTACTTCCTTCCCTT

Sequence 1959

GGCGAATGGAGCTCCCCGCGGTGGCGGCCGGGGGCCATTGAGACTGCCATGGAAGACTTG
AAAGGTCACGTAGCTGAGACTTCTGGAGAGACCATTCAAGGCTTCTGGCTCTTGACAAAG
ATAGACCACTGGAACAATGAGAAGGAGAGAAATCTCTGGTCACAGACAAGACTCTCTTGA
TCTGCAAATACGACTTCATCATGCTGAGTTGTGTGCAGCTGCAGCGGATTCTCTGAGCG
CTGTCTATCGCATCTGCCTGGGCAAGTTCACCTTCCCTGGGATGTCCCTGGACAAGAGAC
AAGGAGAAGGCCTTAGGATCTACTGGGGGAGTCCNGAGGAGCAGTCTCTTGTGCCGCT
GGAACCCATGGTCCACTGAAGTTCCTTATGCTACTTTCACTGAGCATCCTATGAAATACA
CCNAGTGAGAAAATTCCTTGAAATTTGCAAGTNGTCTGGGTTTATTGTCTAAAGCTTGGT
TCCAACTTTTCCAGAATGCCCCCAAGAATTCCTNNGGATCTTGAAAAAGGAAAAAA
CCTGATGGNGGTTAACTGAANCCATTTTGGTTGGNACCCTANCCAGGGCTNGATGTCATT
TATTTGGGAAACCCNNACAACTTGGCTTTTCTTTGCCCGGGGANGNNTTGGGTTTT
GAGAAGCTTTTTTGGNNCCTCGGCCCTTTTANAACCTAGNGGATNCCCCCGGCCCTNNG
GGAATTCNAATNCAANCTTTTNGATNCCCGNNACCCTTGNGGGGGGGGGC

Sequence 1960

TATAGGGCAAATGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGTAGATGGAAGG
AAGAACTTGTGTGCTTAGACCTGACGCTGGGAGGAGATGCTGCCACCTAGGTTACTTGTA
GGACCCATACGGCAACCTCCTTTGCCAGGAACCTATTATAAACATCCTGCAGGAAAAATG
GTAAAGCCCTTGGTTAAATTTATTGGCTTCATTTATGTATCTCACAACACTTCTTTTCTG
TTTTAATTCTAGGAATAGAACTTACTTTTGAAATACAGNACCTGCCGGCGGCCGTCTA
GAACTAGTGGATCCCCCGG

Sequence 1961

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGCAAGGAGGCAAGGAGATT
ACATTTTTCTTATTTCTACTACTTTTGTGCTAACACCGTTTAGCTGGTGGGACAGGN
TCTAAGTATTNGCTAAATATTGNTCTCATTATTTGAACATGTAAAAGATGACTGCATTCT
TTATATATTTCCCTTTTAAGTTTGAAAAGTGAACCTACTTTCTTTATATAAAAATTCATTT
GCCTATTGTCTCAGAATATCACATATAACTGGTGCCTGG

Sequence 1962

GCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGTTGTAGATGGAAGGAAGAA
CTTGTGTGCTTAGACCTGACGCTGGGAGGAGATGCTGCCACCTAGGTTACTTGTAGGACC
CTATACGGCAACCTCCTTTGCCAGGAACCTATTATAAACATCCTGCAGGAAAATGGTAAG
CCCTTGGTTAAATTTATTTGGCTTCATTTATGTATCTCACAACACTTCTTTTCTGTTTAG
TTCTAGGAATAGAACTTACTTTTGAAATACAGTACCT

Sequence 1963

CTACTATAGGGCGAATTNGAGCTCCCCGCGGTGGCGGCCGAGGTACCCGGCTTGGTGAGG
AGTCCCAGATTGTGGAACAAAGTATTCCTCTGTTCAATACCATCTTCCAAAAAGAAACAA
TGACCTAGTGTGTCAAACCCAATGGTGTCTTTATTAGCAAGCCATTTGTCCTATGCACA
GTGATGCACCTTGAGAAGCTGTGATGAAATAGACAGGCCGTCCACAAAATGTTGCAATGT
CTGTATCCTCCTTTATAATCCACGTCACCACACAGGTGAAAATGAACAGGGTATCGCCCC
ATCTGCTGCTGACCCATGTTGTTTCAATCCACATAAGAAAGGATGGACTGGAAGTAAAA
ATTTTTCAATTATCATAATGGTGTTCCCCCAAAAGGTTATTCATTAAATTCAAAAAAATT
TGGGCACCTGGATTTTTTCTTGCGTTTAGCCATGGAGTCCCTCCAACCTTCTTCCC

Sequence 1964

Table 1

ATNGGAGCTCCCCGNGGTGGCGGCCGCCGGGCAGGTA CTCCACAAGCCAGAAGATTAGT
CTCCTTCCCTGTAGCCTCATCTAGCTTACTTATTCAGACTTTCTGTTTACAAGGGGTTTG
TTATCTTCATGAAATTTTAATATGTGTAAGTTAGAAATGAAATTAGAAAAAGAGGTTCTT
GCTGTAAACACTGGGCANGAGTAGCTCANAAGAAGACTGTGGTTCTTGGATGCCCTCATG
CCTTTGTTCCAGTGCAGGTGCCTAGTGGAGGGTGCAGTGCTCTTGCAACATAGAAGGACC
CATTCTTGACGGGAGCTTGATGGCTTAACCTTCTCCTNGGAACCGGGAAGGGAGAAGGAAAAG
GGCCTTTGTTNGGACCCCCAACCTTTTGTGTTNGNAATTTGGACTTGGNGCTTTTTTTTTGN
ANAAANAACCCANCCCGGAAAAAANTTCCCCCTTTTTTC

Sequence 1965

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACATCTCAGAT
GAAGCTGAGCTATCAAGTGACTTGGTTCAAGACCTATCTTTCAGACTGTCTTTCCTTCTA
CTATGCAGATCAACATCCTATGTAAGCTGTGACCCAGGCAGTAATTAGTTTTACAATC
CTTCTTCAAGATTGAGGGACCCCTTTTCCAGACTATGTTTTCATGAAGTAAGCTGGCTGG
CCTTTGTCTCCCAACATTTATGGAAGCTTTTGGTGCCTGATGTATACTTGATGTCAAAC
TCTTCCCATTTTTGTGTCCCTCTGGACACAGAAGTCAGGTAGGTCCAAGACTTCGGTGT
CCTTTTCTTCTCTGAGCTCAGTTTTTTTTTTGTTACAGNAAATGTTTATTTTTGTCA
TATTATGCCCAGGGGAATTTTACCCTACAAAAAA

Sequence 1966

CGCTTTCATAGCTCACGCCTGTAGGTATCTCAAGTTTCGGTGTAAGGTCCGTTTCGCT
CCAAAGCTGGGCCTGTGTTGCACAGAACCCCCGTTTCAAGCCCCGACCCGGCTT

Sequence 1967

CCGGGCAGGTACGCCTACTCAACCCGGCTGTTACCATTGATGGCATCAGCATCCCATAC
ACATGGAACCACACCGTTTTCTATGATCAGGCACAGGGAAGAATGCCCTTCTTGGTTGAA
ACACTTCATGCATCCTCTGTGGAATCTGACTATAACCAGATAGAAAGAGACACTGGGTTT
TAAATTCATGCTTCAATATCCAAAGGAGATCGCAGTAATCAGTGCCCCCTCCGGGTTTAC
CTTAGACTCAGTTGGACCTTTTTGTGCTGATGAGGATGAATGTGCAGCAGGGAATCCCTG
CTCCCATAGCTGCCACAATGCCATGGGGACTTACTACTGCTCCTGCCCTAAAGGCCTCAC
CATAGCTGCAGATGGGAAGAACTTGTCAGGATATTGATGGAGTGTGCTTTG

Sequence 1968

GGGGCCATTGAGACTGCCATGGAAGACTTGAAAGGTCACGTAGCTGAGACTTCTGGAGAG
ACCATTCAAGGCTTCTGGCTCTTGACAAAGATAGACCACTGGAACAATGAGAAGGAGAGA
ATCTACTGCTCACAGACAAGACTCTCTTGATCTGCAAATACGACTTCATCATGCTGAGT
TGTGTGCAGCTGCAGCGGATTCTCTGAGCGCTGTCTATCGCATCTGCCTGGGCAAGTTC
ACCTTCCCTGGGATGTCCCTGGACAAGAGACAAGGAGAAGGCCTTAGGATCTACTGGGGG
AGTCCGGAGGAGCACTCTCTCTGTCCCGCTGGAACCCATGGTCCACTGAAGTTCCTTTA
TGCTACTTTCACTGAGCATCCTATTGAAATACACCAAGTTGAGAAATTCCTTGA

Sequence 1969

AGGTA CTGATCTAACCAAGATATTTGTTTTTCTCATCCACCAGTCACTTTCCAGTCCT
TTCTGTATCCCTTGCAATTTGAACAAAGCTTGGTGAATAGTGTGCACACAAAAAGCACAC
TAGGTGAAAGACAATACATAAAAAAGGGTAAAGTCAGGATATTTTAACCAAACCTATCAA
GCTCTAAATATAAN/CCTCCTTGGTAGTTTTCTTTAAACCTCTCTCCACTGTTGGATGA
AATTTGCTGCATTCAATCCAGTTCACCCCCAACTTCTTCTTAACACAAGGTCAAGGT
TAAGCCTTCGGTGCTTTAATCCAGAGGGAAAATTACTTATTTTAAAAAGCAGTGAAAAAA
CACCCGCATTCTTTGGC

Sequence 1970

CCGCGGTGGCGGCCGCCGGGCAGGTACGCGGGGAGACCTGACGCTGGGAGGAGATGCTG
CCACCTAGGTTACTTGTAGGACCCTATACGGCAACCTCCTTTGCCAGGAACCTATTTATAA
ACATCCTGCAGGAAAATGCAGTGAAGTAGAAGAGACAGGGATATCCAGAAGGTTATGCA
AAACATCAAGAGAAGATGAGAGGAGATGGGAAGAAACAAGAACTTTGACATGCTTGGTGT

Table 1

TCTTGCCCAAGCTTTGAAGAAGTTTACAAAGTCTATATGTCAGAATACACATTTCCCACC
TTGCCCAACAGTGGAIAAAAAAAAAANNAANNAATAGGTACCT

Sequence 1971

CCGCGGTGGCGGCCGAGGTACAACACCCCCCGGGTATCCATAACCTAACAATAACAATT
GTTAAGCATTGCGGCACTCATGTTTCTCAGCTCCCCACCTCCTCCCTATCCTCCCAGG
TTCCCACTGAATTATATATCATTTTCATTCATAAATAATTCTGTATATTTAGTTACAGCTC
AATGAATTTCCACAAAGTGAACATGCTCATGCAAACACACCTGCACTGGGAAATAGAAA
TTACAAACACCCGGAGCCCCCTCTGCAATACTCTCTCAGTCCTTTCTCACTCCTTCCCA
AAAGAGTAGCTACTATCACCTATTGTGAACCTTGCAATATGGATTATAGAACATGTGT
ATTTTTGGTTTGGCTACATTTGTCTAACATTGTTGGTAAGATTTATCCATGTTGTTGCA
TATAGCCATAGTTTATTTA

Sequence 1972

ACGGTGAGCCGTTGCTTGTTCTCAAAGAGCCATTTCTTGAACGACCCGTTCCATTGGCGC
ACCATCTCGGTGTGTGAAGTCGACCGACGGAACAAGACCAAGCCTGTGACCCCGCCATG
TGCCAGCTCCACTCTGGAGCAAGCTCAACTTGCCACCCGATGAGCTTGGCCAAGTTCTTG
TGCTTCAATAAAGCTNNGNACACTACCATCTTCGCTCAGGTAGGGCATTGACACCCGCGC
GGTGCAATATTCGATGCGCTTCCCAGACTCCAGTGGCAGATAATCATAGTAGTACTGCAT
GTGGTCTTGGCCTGGAACTCGATATTGGCTGCTGAGCCCCAAGCCGGCAGGCACGCTTT
GTAATCGACACCCATTTGCAGCTGCGCAACGACTNCTTTCCGCTCCCCGGGGCCTCGAT
ATGGCCCAAC

Sequence 1973

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCCGAGCGGCCGCCCGGGCAGGTACCTTAGC
AAATAGATAGTTTATTCACCAACTATAATCACCTTAACAATAAAAGCTCTCTTTTCGAGA
ACACTGCGTGTCAGGCACTTCATGAAAATTATACTAAACACTTTATGAAAATTATCTCTA
GCTGCAAATTCCCGCGGATGCTATGCAAATTAGGTATAGCTACACTTTGCTGATGGGGAA
AGTATAGCTTAGAGAAGGTAGACGAACTGCCCAAGGCCAGAGCTATGTGGCAGAGATGGA
ATTCAAATGCAAGTATAAATAATAGAATAATTTTCAGTTGGAAATTTCAAAAAGCTGTTT
TAGTTACATTGATGTTAAATCTGTTATTCATTTAAGATGAAGATGGCAAGGGGAGATAA
AATTACAGGGAAGTGGTGAGGATAGAGCTGAGGAAAGAACTTGGAATGAGATTTTAAAA
AGAAATCTGGAAA

Sequence 1973

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCCGAGCGGCCGCCCGGGCAGGTACCTTAGC
AAATAGATAGTTTATTCACCAACTATAATCACCTTAACAATAAAAGCTCTCTTTTCGAGA
ACACTGCGTGTCAGGCACTTCATGAAAATTATACTAAACACTTTATGAAAATTATCTCTA
GCTGCAAATTCCCGCGGATGCTATGCAAATTAGGTATAGCTACACTTTGCTGATGGGGAA
AGTATAGCTTAGAGAAGGTAGACGAACTGCCCAAGGCCAGAGCTATGTGGCAGAGATGGA
ATTCAAATGCAAGTATAAATAATAGAATAATTTTCAGTTGGAAATTTCAAAAAGCTGTTT
TAGTTACATTGATGTTAAATCTGTTATTCATTTAAGATGAAGATGGCAAGGGGAGATAA
AATTACAGGGAAGTGGTGAGGATAGAGCTGAGGAAAGAACTTGGAATGAGATTTTAAAA
AGAAATCTGGAAA

Sequence 1975

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAGGGAGACAGCATGC
AGGGTGTGTTTCAAGAGCTTGTGAGGTGCTCGGCTCTTAGCATTAAAAATGTGATGTT
GGTATATCATCCTGATAGAAAACACTGCTTCCAAATCCTAGTCACTGGATGGGAGGAAA
GTAAGAACAGATTCTTCAACCACTACTGATTTGTTATAATTCTCCCCATTGAAATTGGG
ACAAAATTTGTAACATGCTACTCCGAAATTGATCACATTCTCAATTCTGTCAATAGCAGA
GAATTAGCCTCAACACCACCAATTCAAAATAAGTTTAGGTCTTGCCCTGCCTGATTAT
GTAACAGAAAAGCATAAAGTTTGCAGGGTGGAGCGGGAGGATTTTCTAGGAACTTCCT
TCTCTCCATTAACCGTGTTGAATGAGTAAGGACAGTTAAT

Table 1

Sequence 1975

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACAAGGGAGACAGCATGC
 AGGGTGTGTTT CAGAAGAGCTTGCTGAGGTGCTCGGCTCTTAGCATTAAAAATGTGATGTT
 GGTATATCATCCTGATAGAAAACACTGCTTCCAAATCCTAGTCACTGGATGGGAGGAAA
 GTAAGAACAGATTCTTCCAACCACTACTGATTTGTTATAATTCTCCCCATTGAAATTTGGG
 ACAAATTTGTAACTGCTACTCCGAAATTGATCACATTCTCAATTCTGTCAATAGCAGA
 GAATTTAGCCTCAACACCACCAATTCAAAATAAGTTTAGGTCTTGCCCTGCCTGATTAT
 GTAACAGAAAAGCATAAAGTTTGAGGGTGGAGCGGGAGGATTTTCTAGGAAACTTCCT
 TCTCTCCATTAAACCGTGTGAATGAGTAAGGACAGTTAAT

Sequence 1977

CCGCGGTGGCCCCGCGGCCGAGGTACATGACATTATTGTACGCTGTTGTITACATTACAG
 GAATACTTCGGATATACCAATGCATGTGAAGAATGGGTTTCCCCTCAGTTTCACATAAAC
 TTAGAAATGTCTCAACTGACATTTCTTTTCTTTTTTTAATNTTTAATNTTTTTTTTT
 TTGAGACAGTTTCGCTCTGTCCNCCCANGCTANAGTGCAGTGGTGTGATCTCAGCTCACT
 GCAAGCTCCGCTCCAGTGTTCAGGCCATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGA
 CTACAGGTGCCCCGCCACCACGCTCAGCTAATTTTTGTATTTTAGTAGAGACGGGGTTT
 CACCATGTTAGCCAGGATGGTCTCCATCTCCTGACCCTGTGAACCAACCGCCTTGACCTT
 CCAAAGTGCTGGGATTACAGGGGTGAGCCGCCNCGCCCGGCTCA

Sequence 1977

CCGCGGTGGCCCCGCGGCCGAGGTACATGACATTATTGTACGCTGTTGTTTACATTACAG
 GAATACTTCGGATATACCAATGCATGTGAAGAATGGGTTTCCCCTCAGTTTCACATAAAC
 TTAGAAATGTCTCAACTGACATTTCTTTTCTTTTTTTAATNTTTAATNTTTTTTTTT
 TTGAGACAGTTTCGCTCTGTCCNCCCANGCTANAGTGCAGTGGTGTGATCTCAGCTCACT
 GCAAGCTCCGCTCCAGTGTTCAGGCCATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGA
 CTACAGGTGCCCCGCCACCACGCTCAGCTAATTTTTGTATTTTAGTAGAGACGGGGTTT
 CACCATGTTAGCCAGGATGGTCTCCATCTCCTGACCCTGTGAACCAACCGCCTTGACCTT
 CCAAAGTGCTGGGATTACAGGGGTGAGCCGCCNCGCCCGGCTCA

Sequence 1979

CCGGGCAGGTACGCGGAAAGAGAAGGAGAATATACAGTCTTTGTATTGACCTGTATGCT
 TCTCATTTTTGTTCTTTTGTTCCTTTCTATAATTCTGGATTTCCATCTTGTTAATAGC
 CCTCAGCCTGAGGGATATCAGCATTTCTTGCTATGGATCTTCTAGCAACATATAATTT
 CATCTTTTATGCATATCCAGAAATTGTTGCTTTGCTTTGATTTTGTGTTGTAGTTTCAC
 TCTGTGTAGAAATTTCTGGTTACCGTTTTTTCTTCCCAGCATTTTGAGATATTGATCCAG
 TGAGTTCTGTATGCATTTGCCTACTTGGGTGAAATGTCCACCAGACGGTGTGATATTT
 AGTAGCCCAGAAAGCTGCCAAGGGGTTGAATGACACTATCTGAAGATATGAACAGTTTG
 CTCTCCATAGGGAGGATTTTCATCAACAGGAAACAGATGCTGGAAGGCATTGGATTTGCT
 AAGTGTCTATGCCATATGATTCTGCTGTTTGCGTTGATTTAGAATGCTGAGCTGACTCA
 AAGTCAAAGTGNAAAGTACCT

Sequence 1980

CCGCGGNGGCGGCCGCGGCCGAGGNACGNNGN⁷GGAGGGGGTGTNAAAACCCCNAGCG
 CCGGGAGGAGANGCTGCCACCTAGGNNACTTGNAGGACCCNATACGGCAACCCCTTNGC
 CAGGAACNATNNATAAACATCCCGCAGGAAAANGAGNCNATATGNCAGAAACACANNTC
 CNACCNNGCCCAACAGTAGAAAAACNNAAG⁴AAGAGAAAAACAANAAAAANGACAAGGAA
 GNCAANGGAAGNCAGCAANGNGANGGNGNTTGGAGGGGGAGCCCNAGAAAGGGAANNAAN
 GCCCCNGGAAGAAGAGGCCAGAGAGCNGCGCACCCNCNCCCGCCANGGGAGGAGCCAA
 GAAGCCGGCNGGCAACCCGCAAGAGGACCCCAACAGAGCCAGCCANACCGGCANC
 CCAACNNGGCCNCCAAACCNCCAGAACCGGGAGAAGGANANGGNGGGGNNAGNCAAN
 GGGCCAAGGGAANNNNNNAAAGCAGNCCAGCCAAGACAGGGCCCCAANNACACANACC
 AANNAANNANANANAGGCCCCCNCAANAAACCCANGGNCAANAAAGAGAAAAGAA

Table 1

Sequence 1981

CCGGGCAGGTACAATCATTACATAATCATGACATTTTAATTCTTAATTACAATGCCTTTC
CAACTATATAAAATATGTCTAGTGACACATATTTTGGAAAGCTTCTTGAAAAACATC
CAGAGATTGTGTTCACTATCTATATAAATGAGCTTATACTGAACCTTAAATATGTTT
ATTCAGCCTAACAATCAGAAAAAGAAAACGTTTTTAAACAGTATAAAGTTCAGATGAGTC
CACTTGTCTTGGAATTTTATTTTGATTTTAATTAGAAGAAAGACTGCCATTAGAATTGTT
TTCTAATGAAATCTTTATAAATTCTCTGGGCAGTGCCCTGTATCTTTATTAGAAAGACTT
CTATTTTTTAACAATTTTATTTGGAAGAAGTNCTACTCATTT

Sequence 1982

AGGTA CT CAGTA ACTTCTCTGGGACCCCTTTTGCCTATCTTCTGAATAGAAACATAGAGCT
TCTTGCAGAGTATTAGCTCCTGGCTTTATTGCTTGCTCATTTCTACATAACTGGGTCAAC
CCTGGGGCACCACAGTGACAGAAAAAGAAAGAAAAATAATGGGGTCCCCACCCTGTCCAC
TCTTTGGAGTTTATGGTTCCCTTTTCTTAGTTCTTCTTGTCAAAAAGATAGGTTTTTCTT
TCAGGATTTTAGATCAGCTATCACCGCCACATTGTCAGCTGTATGATTGGGTGGCCCTTG
ACACAGGACCAAAAGAGAGCAACAACAACAGCATCAACAACAACCATAGTGATCCTACCC
CCTACTCCTGGTGACGGCTTCTCTGGGGCTCCTTATCCCCATTCTTGGGACAGCTTATCTC
AGATTTTCTCTGCTCACCCCTGCTATGCAGTTCCAAATTTGATATTTGGAAGTGGTAGTA
TCTTCAGATCAAGTTGAGAGACANANNANAAAAANNNNNNNNNAAGTACCTGCCCG

Sequence 1983

CCGCGGTGGCGGCCGCCGGGCAGGTACGTATAACAACATGAATTCATCTCAAAGACATT
ATGTTGAAGCCAGATTTGACATAACTCATTCTTTGTCAATTCATTTATGTGAACCTTGGG
AATAGTCAAACTTAGCTATGGTGACAGCAGTCAGGGCAGTAATTATCTATCGAGTGTGG
AGATTGACTGAAAAGGGCACAGGAGAACTTTCTGAAATAATAAAAAATGTCCTATATCTTG
TTTTGCATCGTAGTTACACAGGTGTAGACAGTTGCTAAAACGCTAAAACTAAATGTGTA
AGATTTATGCATTTTAGTGATTTAAATTATAACCCCGAGAAAGCATTGCCTCATTTTTT
CTGGAGGGTAAATATGCTCGTTAGGAGCATAAGGGGATGATTTTGAGAAACCCCTGCTCT
GTCATTCTGTGCTAGTAAACCGCCACTAATTTTCTGGTTTCAAAAAAGCAAGGTCCATTGA
TGAAACTCCTTTGTGCCTTAATGACAAATAACATTGATAAGGCCTACTGGCAACAAGAGT
GNGGTTGGTATATCTTTTGGTTTTAGNGACTAAATTTGGANGAATGATATTTTCATGG

Sequence 1984

CACTATANGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACTGGTGT
ATTTATCTATTGCCATCATTTTCAGGGACACCTAGGAAAATAAATTTTCAATTGCATAAAA
CCTAATTATTTTCATACTGCAGACATTTGATCAAAGGCTTACTTGATCAAAGGCTTGTCCC
AATTGCTCCTCCAGGGATTTCGTTCTGCTCAGATAAGATATGGTTCCGCTTAAAGAGAGCT
TGTCGAATTCGAGCAGCGAGTTCCAGATCACGATCCCTCTCTGCCAGGAGATGTGTAACC
ATGTCGATGTCATTGTAAGTTTTGGTCATCTGCTCCACCCTGTCTGGTGCCTAAGAATCA
TGTAACCGGAAAGTCTCTTCAGCAAGGAC

Sequence 1985

CCGCGGTGGCGGCCCGAGGTACAACCTTGACAGTTTATAAAAATGCTAACCTATATCAACA
TTTTTCCCCACCAAAGTGTTCCCAAGGGCAAAAGTAAGTGAATACATGTTTCCATGCTTG
TGTCAGGGGACACAGCAAGGGAAGGCAGAATGGGCATGACCTAGATTAGATTCCAGAAG
CCTTCAAATTCCTTATAAGACTTGGGACTGCATCTTAAAAATAATATTGTTTTTTTTTATT
CTTTGATAATAAAAGAATGGAACCAAATCCTGGTTGTCTGATTCTTTGCCAGTGTCTTT
TCTTATGTCTAACACTGCCTCGTCTTATGAATAACTCTGACATTACAGAGAAAGACTATT
GTTTGTTTCAGTTCAACTCAATTCCATAGGTGCTAGCAATTATGAAAAAGGCTGTTAGT
ATCCAGCGGGGAAAGCAAANGATCCCGCAGGTGGTAACACCCTACTGAGAGCAGAGGGGG
ATGAATACA

Sequence 1986

CCGCGGTGGCGGCCCGAGGTACACTTGGTGCAATAAAGTGCATCTTTAAAGTGTTTTGAGT

Table 1

TTGGACACAGACCCGTGAAACCAACACCATAATCAAGATTCATGATGAATATGTTCCACG
TAGTTTTTCATTTAAATCCCTCTCAGTAGCATATTTGTCTGTTTAAGAGCCATTTGCATTT
TTCCATAAATTGCTTGTTCCCTCTCCCCCTGCCCGCCCCCGCGTACCTGCCCG

Sequence 1987

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACACTTATAGTTGAGAGCCA
AGTCTCCCTTATCATTGGTGAATGAGAATGAGCTACTGAAAACAAAAAGAGGGTCTTCTA
CTCAGCCTCTACCCCTAATATTTATATCAGAAGCAGAGATTAAGTGTCTTACTCATTCA
CACGTTAATGGAAGAGAAGGAAGTTTCTAGAAAAATCCTCCGCTCCACCCTGCAAACT
TTATGCCTTTCTGTTACATAATCAGGCAGGGGCAAGACCTAACTATTTTGAATTGGTGG
TGTTGAGGCTAAATTCTCTGCTATTGACAGAATTGAGAATGTGATCAATTTAGAGTAGC
ATGTTACAAATTTTGTCCCAATTTCAATGGGGAGAATTATAACAAATCAGTAGTGGTTGG
CAGAATCTGTTCTTACTTTCTCCCATCCAGTGACTAGGATTTGGAAAGCAGTGTTTTCT
ATCAGGATGATATACCAACATCACATTTT

Sequence 1988

NACTCACTATAGGGGCGAATTGGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTAC
GCGGGTATCCAGTTATTTCAATTGGTTGAAATAGCTGACCGCTTATAATAAGTAGTCTGT
GGACTGCTTAAATTTTGTAGTGAATTCCTGTGTGTGCATTTTGTAAATGGTCATTTCTAG
TCGTAAATGTCTTTAGAAAAGTCATCTAACACAAATACATTGAGAGAAGTTTCTTAGCAT
AAGCCTGGTCATAAACTCCACCTGATACTTGGGGCTTGATTTAAATCAAGTGGAAGCTC
TGTGCAAAAAGATGGATATGTGACCAATATAATAATGGCTCCTTTTGAAGAACAATACT
TCTGAAATTAAGGGGAATGCATTAAGATGTGTATGTAATAAATAATTGAAAATAATTTTG
GAGGCAGAAGTTATTGTAAGTGAAATCTGTGCATAAGGTGAAACAATCCT

Sequence 1989

CCGCGGTGGCGGCCGAGGTACTGGGGCCTTACTTCCCTAAAGACCCAGGGAGGGGAGAGA
AAGTGCTCTGCTTGATCCTAAGCACAAATGCAATACAGCAACATCAGTAATGGTAACTG
AGTGCTTACTGCATGCCAGACCCGTGCTAAGCTCTCTCCATGCACTATCTTAATGTTAC
AACCTCACACAGTAAGCATTATTAACAACAGCACTTTACAAATAGAAATTTGTTGAGGCT
CAGAGTTGCCATAGCTGGTGAGCATCCACAGCCTACATTCAAACCAAGTTTCATTCCAA
AGCTTTGCTTTCTGCTGCTGTATGTCTTTGCGTCATCTTCGCATATTTAACCTCCTTG
GCTCAACTGGGAACCTTTGAAGGCTAGGGCCATCAATTACATTTTGTTCCTCAA

Sequence 1990

CGCCCGGGCAGGTACAGTGTGAGGGCTTATGCTACCAGACTAGGTGGAGGAGATGACATG
CAGATTCAGGAGAGGATCCAGGGCTCATGAGGACGTTGGAGGTTTTGTTCTAAGCATTGGG
TTTTTGTGTTGGCTTTTTCTGTGTAACTTCTCTTTCACCTTCCATTGAGATGGCTCCAA
ATTCTTTCTTCAATAGTGGAAGTATTATTGTTAGTCAGGTTTTTCAATACTTAATAGTGG
TCTGTATTTGTGGGTGCATGTGGTATTTTGGTGCATGCATACCATGTGGAATTATCAGAC
CAGGGCNGCCGGGACATCAGTCACCCAGACATCCACCCCTTCTTTATGTTGGGAACATT
TCACTTNTCTCTTTTCAAGCAATTTTGAACAATGCAACAACTACTGTTAGCTTTAAACAC
CCAATGTGCTATCAACAGTACATCTTACTTCACTAAATGNGGNTTTTATGCCACGCGC
ANNCTTCTGGATAAACTTTGTCTAAAGTGTTCAAAGAGGCTGCTCAAAGGAAATGTG
GCTTGTTTTGGGANGTCTGAAATGTTTTCAAAATTTCTGGCTTTGAAAAA

Sequence 1991

CGGCCCCCTCGTGGTGGCCAGGCGCGATGCGCGCGGCGTGGCAGAACTGCTGCGTCCGTAC
ACCAAAGAGGCGCTGGCGCCCGGCGAATTCCTGCTCGAACTGACGCCGAAGGATGGCAAT
TGGGTGCTGGTCAGCGATGCCTGGTTCTTCAAGGAAGGCGAGGCGACGCGCTGGGAAAAG
GCCCGCTATGGCGAGTTCGCGTGTGCTGCCGATGGCCGCGCCTTGCTGGTGGGCATGCGC
GGGGAAGATTTACAGGCACTGTAACCGCTTGATTGAACAAACCCAATG

Sequence 1992

CGGGCAGGTACTTTGGCACATGCTGGTAGCCAGGAGTCTGGGCCTGAAATTTGGTCCTGA

Table 1

CTCCACCCTCATCTCTCTGCATGACTTCTCTGGGAGATACAGCCTCTCCATTTTACACTG
AGAGAACTAAATGAGCTCTAAAGCTGCCCTGACAGCTGACAGTCAAGGTTAGCATATTTT
TGTGTGGCTCTGGCAAAAGTACCT

Sequence 1993

CCGCGGTGGCGGCCGAGGTACACTTATAGTTGAGAGCCAAGTCTCCCTTATCATTGGTGA
ATGAGAATGAGCTACTGAAAACAAAAAGAGGGTCTTCTACTCAGCCTCTACCCCTAATAT
TTATATCAGAAGCAGAGATTAAGTGTCTTACTCATTACACGTTAATGGAAGAGAAGGA
AGTTTCTAGAAAAATCCTCCCGCTCCACCCTGCAAACCTTTATGCTTTTCTGTTACATAA
TCAGGCAGGGGCAAGACCTAACTATTTTGAATTGGTGGTGTGAGGCTAAATTCTCTGC
TATTGACAGAATTGAGAATGTGATCAATTTAGAGTAGCATGTTACAAATTTTGTCCCAA
TTTCAATGGGGAGAATTATAACAAATCAGTAGTGGTTGGCAGAATCTGTTCTTACTTTCC
TCCCATCCAGTGACTAGGATTTGGAAAGCAGTGTCTTCTATCAGGATGATATACCAACAT
CGCATTTT

Sequence 1994

CGGTGGCGGCCGAGGTACCGGTTGATGTAAGCACAGGGATGGTGGGGACAGGGTGACCAA
AGTGAAGTGGGCACGAGATGAGTAGCTGGTATATAGTGACTTGAAGGCAAGGTGCTTGA
AATTTCTGGAATCTCTGCAAGTGCACAGTAGAACTATTATCATTGGTTACGTGCTT
CAAGAGGACTGGGCAGATGGGGGGCAGGAATAAGAGAGCCACTATTCATTGACAAATT
CTTGGACATTTTGATTTCTGAGCCATATGGATGTGTGCTCTATCAAAAAGAATAAGTGAA
AATGTTCAATAGTAAGAGAACACTTTGTAAATCTCTGGCTGCTGCTCTTTGTGATTAGCC
TCTCAGCACTCTTATTTGGAATAATCAGAAAAATACAACATCTAAATTTTGGGAGGAGA
GTATACTTGTGGAGATTTGGGAAGAAAGAAAAAAGTATGGAAAGTTTCCCCCAATAATA
AAATGAAATTCATTGGAAAGCCATTTCAAACATTTAGAAAGTTAACCCAGAAAAATAGAA
AGG

Sequence 1995

GGCGGCCGCCCCGGGCAGGTACTCGNNAAGCAGTGGTAACAACCCAGAGTACTCGGGAAGC
AGTGGTAACAACGCAGAGTCCCGGGAAGCAGTGGTAACAACGCAGAGTCCCGGGAAGCAG
TGGAACAACGCAGAGTCCCGGGAAGCAGTGGTAACAACGCAGAGTCCCGGGAAGCAGTG
GTACCT

Sequence 1996

CGGCCGCCCGGGCAGGTACCNNNNACTNATTNTGCTGTGATCCTAAAACACTCTAAAAGA
TAAAGCCTATTAAAACCATATTTTAAAAAACTGACAGGTGTTCTTAAGATTAACTANTG
AGTTCAGAGAATAAATNGAGGATGAGATGAATTTCTAAAAACAGCAGCACCATACATCAA
AAATACCCAGCTAGAAATTATAAATTTTAAAAGATCACAGAAGATAAACAAAAACAAAC
CCCTCCCCATCTTATCTTTATTATTTNTCTTATTTGTATAAAAAATNAGGAGATATAAAT
AAATAGAAAACACTACTGAAATATTTACAGGGATTTCATGAAAACAGATTTTAAGAAATTA
AGATACATATTGTCAGGTGTGGTGGGTACGCCCTGTANTCCAGCACTNTGGAAGGCCAA
GGTGGGTGGATCACTTGAGGTGAGGAGTTTGAGGACCAGCCTGGCCAACATGGCAAAACC
CCATCTCTACTAAAAATACAAA

Sequence 1997

CCGCGGTGGCGGCCGAGGTACGCGGGGGTAGATGGAAGGAAGAACTTGTGTGCTTAGACC
TGACGCTGGGAGGAGATGCTGCCACCTAGGTTACTTGTAGGACCCTATACGGCAACCTCC
TTTGCCAGGAATATTTATAAACATCCTGCAGGAAAATGGCCTCTTTAAATATACACTTC
TCTGTAGTGATGCTAGAAATGGAGTGGCTGGAATAAAAGTGGCTGAATCATCTTCAACT
CTAGTAGCTGAGACCAATGATGCTGACCTCCCTCAAAAGCTGCATTTCTGAATTTCTGAA
GGCAAACTGTCTGCCTATATTGTACCTGCCCCG

Sequence 1998

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATTCTAATCCCAGT
TTACATTTAAACACTTCAAATGGAGCCACTAGGACTCAAAGTTGCTAAATACACCCATG

Table 1

CCCTCTTATCGCCTTCCACTGGGGGTGGTTCTTCGGTATTTTAACTCTTGAAGTTAATT
TTTGAGGAAAAAAGTAATAGACATGTGACAAAAACAGGAAGAAGGGACACAGTTCAAC
TGGGTTGTAGCTCTAATCTCACTTTATCAGCTGCTTGAAAGAGGGAAATGAAGGACAGAG
CGGTAGGAAGTCTGCACACACCAACCTCATGGAGACCAGCTCAGCCCCCAATGCAGTCAA
GCTACCTAACCTCCTGGAAACATAAAGATCGGCGTGTTACTTG

Sequence 1999

NCCGGGCAGGTACTTGCTTAGTCAGTTCTGTGGGCCAGAGGACACTCATGGGGAGAGATC
AAGGTTACTTTTTGCAGGTGGGGCATTGTGAAGTGAATAAAACCCAGTCAGTAAAGTA
ANCNACATGCNGAATCTANGCAAGTGTTGCAATGTATGTNTGCTCTTGATCTGAGGAAGA
CCATGCATTTGACTCAGACTAGAAACCTACACCACAGAAATCCCACCCACAAGCAATGCT
CTATTACTGTAGGTACCTCGGCC

Sequence 2000

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGGGGCTACAGGCAGG
CACCACCTCAGCCAGCTAATTTTTGTATTTTAGTAAAGACAGGGTTTCGCCATGTTGC
CCAGGCTGGTCTCGAACTACTGGCCTCAAGTGATCAGCTCATCTTGCTGCCAAAGTGC
TGGGGTTACAGGCGTGAGCCACCATGCCCGGCCCGCAGGACTTTCTGCTGTTTCTCTC
AATTTTATGTAAGTAAAAACAACAGCAACAATAAAATCCCTGTCACTTGAACACAGAATGA
ATTCTGCTTTATATATTTGTATAGTTGTATAGATATTTGTATAGTTTATGAGGCACT
GAACTTTCCAGAACAGCAACTACTGTGTATACTGATGGGGCAA

Sequence 2001

AGGTACATTCTAATCCCAGTTTACATTTAAACACTTCAAATGGAGCCACTAGGACTCAA
AGTTGCTAAATACACCCATGCCCTCTTATCGCCTTCCACTGGGGGTGGTTCTTCGGTATT
TTAAGTCTTGGAAGTTAATTTTTGAGGAAAAAAGTAATAGACATGTGACAAAAACAGG
AAGAAGGGACACAGTTCAACTGGGTTGTAGCTCTAATCTCACTTTATCAGCTGCTTGAAA
GAGGGAAATGAAGGACAGAGCGGTAGGAAGTCTGCACACACCAACCTCATGGAGACCAGC
TCAGCCCCCAATGCAGTCAAGCTACCTAACCTCCTGGAA

Sequence 2002

CCGGGCAGGTACTTTATATTACTTACTTGTTCACATAAACTTCTGGCATTGCATGTTT
ATTATTCTAATTTGGATTAAATAATATGTCAATTTATTTTATAAGTCAACCGATATGCTT
TTTTCAGCTTATAATTTGTCTACTTAGTATCCTCTAAGTAGCATATCCTAATCTATTCT
TAAGATTCACATTGTTATATGCTTGACATACTTTACAACCATCACCATGGAGAAAGAGA
TCTATAATGTAGACAGATTTTAATTTAATCATAATATCATCACATTTTAATTTTATTTGA
ACCTACACAGGTGCCATTTAAATAGGTGACAAGCTAATATTAATTAATATGATGGGAGTTG
GGGA

Sequence 2003

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGGTCCCCTCACACCTTCTGTTGATGCC
TTATTACCACCAGGCAGATTAGAAGTTCTGGTTTCTCTAAATTTCACTTGACTCTGTAAA
CTTATAACTTATCTTATAATTTCTGTTGAGAAATATAAATGAAATGATGCATGTAATAT
ATCAAGCCACTGTCTGATGTAGAATAATATTACTAACATTTATGATTTTGAAAATTAATA
ACAAAGTTGGAGGAAATACACCACCAACTTCAAATGCTAATATGAAGTTACAACGATCAA
GATAGTGTGGCATTGGTGTAACACAGACATGCTTATCAATGGCGCAGAATTAAGGAAT
AGAAATTAACCTTCTGCTTTG

Sequence 2004

CCGCGGTGGCGGCCGAGGTACCTGCACTTCAGACCCTGGCTCCATGTACACCTGTGCTCC
AAACCTGGCTCTGTGGCTACTGCACAGGTGCCAGCAGCTCAAACAGTCAAACAGTGCCAC
CCTTGCAATAAGGAAACCTACAAGCTAGACCGGATATCAAGAAAGATTCTTCAGACATG
ACATCCCCCTGTGGAAGAAAAAGACATTAGGGAGTCCCTAGCAGCCTTTGTCTTTGAAGAT
CCCTTACTGCTGCTGTGGATGCCCACAGCCTTGTTTGTTGAAAACCTTGCAATCTTCAC
CAATTCTGATCTTCAGCTGACAAAAGATGCACAGGGGGAGGTTTGCCA

Table 1

Sequence 2005

CCGCGGTGGCGGCCGCCGCGGCAGGTACTTGGAATGCTGTGTGGAGTCCTTTTCTACTT
TTGTTCTGAGAAAGAGAGATTCAAACTTCCCACATTCTTCCAGTGGCATCTAAGGAT
CCCTTCCTAAATGGCCTTTCTCCAGCCAATAGACTGAAGCAAACCATGTCCTTGATGCT
TCCTGCCCACCACCATCCATTCTTCAACCAACAGCTTCTCCGGGCTTTCACGTGCCATG
CACTTTGCTAAGAGCTTGAGGGAAATACAGCAATGAAGAAGAGATGATTCTGTTTGGAC
CCAGTGCTCAGGGATTCTCTATTAGGAAATCAAAGGAGGCTTCCAAAAGCCCTACAAT
TTTTCCCTGNTAACTAAAGA

Sequence 2006

AGGTACGCGGGAGGAAAACACAACATGAACAGGCAGAGTGCACACGCCGTGGCCTCGGGA
AGCCACAATCATGTGGCTGACATGGTTCCAGAGTGTGGCATTAGGGAGACCAACTTCTGA
GCTGCAGATTCACAGCATGGCCATGCAAGCAGGGAAGATGTGCTCTACTCCAGGATCAAG
GAGCAAGCCCATATTTCTCTTGATTCTGGGACTCCCTCTTGAGACTGATTGCTCTAAT
GTTAGCTCTTGAGAGAACTGGGGTCCCTGCCTTCTTGGGAGCCTGAAAAGAAGTTTGC
T

Sequence 2007

GAGCTTCTGAACATTTCTTCTCAGACTAAGCTCTTACACACAGTTGCAGTTGAAAGAAAG
AATTGCTTGACATGGCCACAGGAGCAGGCAGCTTCTTGCAGACATGACAGTCAACGCAAA
CTCATGTCACTGTGGGCAGACACATGTTGCAAAGAGACTCAGAGCCAAACAAGCACACT
CAATGTGCTTTGCCCAAATTTACCCATTAGGTAAATCTTCCCTCCTCCCAAGAAGAAAGT
GGAGAGAGCATGAGTCTCACATGGAACCTTGAAAGTCAGGGAAATGAAG

Sequence 2008

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCCGGCCGCCGCGGCAGGTACGCGGGGAAAA
ATCCAAGACAAGAAAAGACTGTAATAAAGCTAAATATAACAGTATAATGATACCAGGTTG
CAGGCAGCAAATAGCAAACCTGAAACCATGAAAAAGGGAATTCATATAGTAGAGGACAAA
TTTAAGGAGGGTTTCAAAGTGTAAGAACAAAAGACTTAAACTGATGAGCTAATAGTTGG
ATGACAGGTCTTGGAGATCCCAATTCCTTGGGAATAACAGTTTCTGAAGGAAAAACAAC
AAAGAGAACAAACCATGTTCAAAGGGAACAAAGGAAAAATAATCTTCAATTAAAGGAAA
GTTTTCTGCTTGNAAAATGAATGACCATTTGGGTAAAGAGGGTAAACCTATGAA

Sequence 2009

TCACAAAAATCGACGCCTCAAGTTCANNAGGTGGCNGAAACCNCGTACAGGAACCTATT
AANAGCATACNCANGGCGGTTTTCCNNCCCTGGNAAAGCTTCCCTNCGTGGCGCCTCTT
CCCTGTTATCACGACNCCTGGCCCGCNTTTACNCGGNATACCTGTNCCGGCNCCTTTCC
TCCCTTTCCGGGGNAAAGNCCGGT

Sequence 2010

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGCGGCAGGTACAACGATGCAC
ACAGATGGGAGGAGCTGCCTTGAGCGAGAGGACACTGTCCTGGAGGTGACAGAGAGCAAC
ACCACATCAGTGGTGGATGGGGATAAACGGGTGAAACGGCGGCTGCTCATGAAACGTGT
GCTGTCAACAATGGAGGCTGTGACCGCACCTGTAAGGATACTTCGACAGGTGTCCACTGC
AGTTGTCCTGTTGGATTCACTCTCCAGTTGGATGGGAAGACATGTAAAGATATTGATGAG
TGCCAGACCCGCAATGGAGGTTGTGATCATTTCTGCAAAAACATCTGTGGGCANGTTTTT
GACTGCGGCTTGCAAAAGAAAGGGATTTT

Sequence 2011

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGAGGTACCCCCAGCACTTTAGCCC
TGTGTGGCCAGCGCCCATGCGCAAGCGTCTTTCTGCCCCAGAGTTGCGGCTGAGTCTGA
CTAAGGGGCTTGAAATGATGGAGCTTCAACCAACAGTCTGCACCTTCTCTCTGATG
GCAGTTCTGACCTGGAGATAGACGAATTGGAGACACCTTCAGACTCGGAGCAGCTGGACA
GTGGACATGAATTTGAATGGGAAGATGAACTACCCGCGGCAGAGGGTCTGGGCACCACTG
AGACAGCTGAAAGGCTGGGCCGAGGTTGTATGTGGGGATGTGACTGGAGAAGATGGACAT

Table 1

CACTGGGAGGGGGTGTCCGAATGGGGACCC

Sequence 2012

GGGGACCGCCAGGGGCCTCGAGAATCGGTATCCTGAGTCCTCTTGAAGAGCAGTAGAGGT
TGTTTCATTAAGTGCAAAACACATTGTTCTTAATTTGAAAACGTGGGCAGAAACAGAAGC
CCGAGACTAATTTTCCATTGCTAACTCTAGATTCTCGGCCACTGGAGTCTGAAGATACT
CTCTTTGAGAATGCATATTATTTTGCTCACAGCTAAAACATTTAAGTATCATAGCTGATC
AGTGGAGTGAGATTAAGGTTTCTTTTTTGAATCATCAGCTAGAGAT

Sequence 2013

CCGGGCAGGTACGCGGGATGATTAATCTTCCCTTATCCACAACTTAACTGTGGAGAAAC
AGGAGAAAGTGTGTGCCTAGAAGCTGGATTCAGGGACCCATGGTTACCCACTTCTACTTA
TGATTCCGTCATTACTGTTGTTTTAGGAAAATAAACAGATCTTGATTCTTTCATAAAAGT
CGATTCTTCAACAAGCAAATGGGAAAATCGGCAGGCCAGATATGTGTGTATAGCAGCTA
CTGGTTGGAAATTTGGACACAAAAGTCTTTATCTACCCAGCCTGTGAGCCACAAATCTGG
ACTGAGTATAAAAAAGAATAAACTAAATACCACCATGGTTCCTACTTATTAAGTGGGGA
ACTAAA

Sequence 2014

CCGGGCAGGTACCCTGGATCGTTTCAGAGATCTAACGTGTTGCCACACCATANCTCTAAG
AAGCTGTGGGGCACAGTTCAAATCTTANTGGAGTGTATGATTGCACAANGAAATACTTT
AAATATGTTTACTTTTTAATTTCTAATNGACTAAGAAAATCAGCNAGCATAAAAACTAAC
TTTTTTTANAAGGACTCCCCAAAATTTGCATGTTTTTTCCAGGTNTTTTTATTTTA
ATTTANNTNTGNTANGGGGCATTAAATTAATNTNGTTGGCCANAATTTTAAACNTTAN
TTGNNTTACCCNTTCGNGCCCCGCCTTTCTTATGNAAAACCTTNGATTNNGGAAATTCAC
CCCCCNNGGGGGGNNNTTGGGCAANGGGGTAAAAATTTCCNGAATTTATTTNCAAAAGG
ACCCTTTTAAATTCGGTNAATNAACCACNGGTTCCNNNAATCCCCTTTCTATGAAANGNG
NGGGGGGNGGGGNCNCCCCNGGTGTTAACCCCCCAAAACC

Sequence 2015

CCGCGGTGGCGGCCGCTTCTCTTACTGATAGTAGGATATTTCTGCTTTAGTTATTGTCA
CCTTAAATATATTTTCAATGTTGAAATCCTCACAGCATGTTTGATGAAATCTAGTTTCA
AATTTTCTTAGGTATATTTCTGTACGTTGGCATGATAACAAATGCAATAACCCAAAAGA
CCCCAAAAGCTAGTGTAATCCCTTTTGAATCCAAGCATGAGGATTCATCTTCATGTTGA
CAGTGCGTGAATGTTCCGTAGGCTTTGTCAAGCTTGCATACAATAAATTATATTATGTCC
CTTTTCTTTTAGGGGTCTCCTGTTTAAAGGATGGGTCTTCTGGAAGGGCTAACCTGCGG
GAATGGAAAAGTTT

Sequence 2016

AGGTACAATTCCTTTATTCCAAGGCCTGCTAGAACTTACATGTTTATAAATTGCCTTTA
TAAGCTGGCATGCCTCTTGGAGTGGGGACAGACATTTGTTTTTCATGTGGTATGTCGGGA
GTATGAACTGGAAAGACCGAAATCAGTTATAATATGTCAGCATGGAATTGATCGTCGGTT
CTGTGAATCCAAGTTGAGTTGATTCTTGGGCCCTTGTCCAACCTTCAGATGATTGAAATA
TACTATGATTGTTTTAGCAGTAGATGGAGCCCGATATTACATTGTTTGAGCATGGGTTG
TGCCTACAAATATAAAGATGGGTGCAATTCGAGTTGCCAAAACCTGTAATCTC

Sequence 2017

CCGCGGTGGCGGCCGAGGTACGCGGGCGGTCTGAATGGAGGAAGTTGGTAATACTTGGCT
TTTTTTTTTCTTCTCTCATGCAAGTTTCCAGGATATAGCTTCTTTTTTGTGTATGTAA
TTGAGACCAAACCTAAGCTTGGGGCCCTGGAGAGAACAGTTGTGGCCTGCAGGTCATTA
GTGAGGTGAGCAGAAGGGAATCCTGGACTTCCCAGAGAAAGAGGAGACCATGCCAGCCTC
GTGGAACACAGCTACCAGGAAATACAGAAGCCAGGTTCTATTCTTGGCCAACTCCCGGA
AGTCCATGGAAAAAACCGGGACCCACAGTGGGGGTGGGCCTAAAAATGTCCAGCCGCC
AA

Sequence 2018

Table 1

CCGCGGTGGCGGCCGCCGCGGCGAGGTACCAGGCTAGGCAGCTCTGGAGAAAGCAGAAGTG
GATAAATAAGGTGTGGACTACCAAAGACAGTTCCAAAGTCAATTTCACTCTGACACACT
CTCTGTGATCTTCCACAGTCAGCACAATGCCTGCCCCCTGTGGGTGTTGTATAAATATTT
GTTGAATGAATGAATCAATCATTCAACAGACCAAGGCCAAATCAGAACCCCAAACCTAA
GGTCTTTATACTCTCACTGTCCATCCATCGATCTTCTGTGAGAAATCAGAATATACCTT
TGCAATACCCTTTGCTAGCCTTTCAGTTATCTTTTGAATAGAGGCTCTGAGCCTTGAAAA
TATTGCCTGGGAAAAATTAACACCCATT

Sequence 2019

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATGCATACTCAATGTTTAGTTCC
CACTTATAAGTGAGAACATGTGGTATTTAGTTTTATCTTTTTTATACTCAGTCCAGATT
TGTGGCTCACAGGCTGGGTAGATAAAGACTTTTGTGTCCAAATTTCCAACCATAGTGC
TATACACACATATCTGGGCTGCCGATTTTCCATTTGCTTGTTGAAGAATCGACTTTTA
TGAAAGAATCAAGATCTGTTTATTTTCTAAACAACAGTAATGACGGAATCATAAGTAG
AAGTGGGTAACCATGGGTCCCTGAATCCAGCTTCTAGGCACACACTTCTCCTGTTTCTC
CACAGTTAAAGNTTTGTGGGATAAGGGG

Sequence 2020

NTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGGTAGTCCCAGCTACTC
AGGGGGCTGAGGTGGGAGGATTGCTTGAGTCTGGCAGGTCGTAGCTGCAGTGAGCCCAGA
TGGCACCACCTTCATTCCACCCTGNGTAACANGAGTGAGACCCTGTCTCAAAAAAAGAAA
AAAACATACACACAGACATATATGCATACATAAAGGAGCAGCCACTACCCTTAGGGCTA
AGACAGTGTGTCCAAGAATGAGTCCCCCATTTCCCTACCACCACCCCAGGGCTTGATNAT
TCATACCCTGGTTTAGNAAAGGGGCCCTCAGTTGTGGGCTCACTGGAATGGCCAGAGNTAA
TTGCNTGNATGTGCCTTCTCTGGGGGAAAGCGTTG

Sequence 2021

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTAAAAAATTTCAATTAACCCAAA
AAAGGCAGGAATGGAGGAACAAAGGAACAAAAAATGACAAATAAAAAACAAATGACAAG
ATAAGACACTTAGAAAACAAGTAGCAAGATGGGGGATCTACAGCAACCTCATCAATCATT
ACTGGAATTGCAAAATGGAGAACTCCATGTGCAAAGCAGGGATTGTCACCAAGACCCAAC
TCCATNTACAGACACCCACGTAAGATACAAAGACAGGTTGGGTGTCTAAAGGATAGAAAA
AGATCCACAGTGGTCCAGGAGTGGTCCCAGCATTGTGGTAGGCACAAGAGTGAGGATCAC
TTGAGTCTTAGAGTTTTGACCTGTAATCCA

Sequence 2022

CACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGNCNGGCCNNGTNCTCTN
TTTTNCATGCTTGATTGTGAGGCTTATTAGAAAACAATGGCATTGACGTTTCATTCT
GACTCCTTGATTCCATTGTTTTCAGGAAGTTTTATCTGCTGAAGGCACTAATCCACA
ATGAGCAAAATTATCCTGCCCTGNAGGGTAAGCTATAATATCGGCCCATGCTTCAGGAAG
AGAAAATCATGTGTTACAGGGGTGACTTTGAGTCAGCTCAGCATTCTAAATCAAACCGCAA
ACAGTANCAATCATATTGGCATAGAACCTTAAGCAAAATTGGGTCAATTTACNTAAN
GTTTTCTGGCTTTCGTGGGAGAATTAATTCTGCCC

Sequence 2023

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGCGGCGAGGTACTTTTTTTTTT
TTTTTTTTTTTGGAGACGAGGTCTTGCTATGTTGTTTCAGGCTAGACTTGGACTCCCAGCC
TCAAGCAGTCCCTACTGCTTCAGCCTTCCAAGTAGCTGGAACCAACAGGCACACACCACTAT
AACCAGTTTTATTTACATTGNTCTTGTAATCTGGTATCAGTGATTCTTATAACAATATG
CTCTCAATTTATTTAAGCATGTTGAGACCTTAATGATAACTATTGAGAAACCATACTAA
ACATTTTGATCTTGAAATCTTCCATCGTTTTCCATCCTCTGCTTATGCCTCAGTTTATTT
CCATTGCGCATG

Sequence 2024

CCGCGGTGGCGGCCGAGGTACCCTGCTGAAAGATTATTTCTAACAGGCTGTAGAGAAAC

Table 1

GTCGGTTCATGTAAATTAGAAATTATGGGGCCACTTTGCCATTCTTCACACCTGCAATGA
ACAGGTGTTTATCTGCAGTTCTGACTTATCTCTTGAAGTCCATTTGCATGTTATAGTGGG
ATGCAGCTGATGCCCTGTCCAGATCTTCTTCAGGCCACTACATCTATATATGCATTCATA
TTCCAGTGGCTGTGAGTGTGGCTGTTGGTTGACAGAGGAGCTGCATCCTCCTGGGAGGG
AAACTGGAACTCAGCCTGGATGAAAAGCCACCCTGGTCCTGGGAGGTGAAAGNCATCTTC
CAAATGACAGC

Sequence 2025

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAGACCTGACGC
TGGGAGGAGATGCTGCCACCTAGGTACTTGTAGGACCCTATACGGCAACCTCCTTTGCC
AGGAACTATTTATAAACATCCTGCAGGAAAATGTGAAGTAGAAGAGACAGGGATATCCCA
GAAGGTTATGCAAAACATCAAGAGAAGATGAGAGGAGTCTATATGTCAGAAATACACATTT
CCCACCTTGCCCAACAGTAGAAAAACATAAANAAAAAAAAAAAAAAAAAAAAAGTACCT
GCCNGGGCGGCCGCTCGA

Sequence 2026

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGACGCGGGAGTTTTTCAGAAAT
CAGGCCTGCTTTGTCCCTAAATGCTTTCTATTTCCTCCAGAGCCCTTATTGGATTTAAGC
CCCATATCATATCTCACATACCTGAGACAGACATACCACAGTGAACCCTGCATGTCCCTTG
TAAGTTCTTTTCCGTGCCTAGAAGTTGCAGAAGACCAAGGAACCTTGGAAGTGACTTACT
CTTTTGCCTCATAAAGTTGCTTTAAACAGCCTTTATTTTAATTATTAACAAGGTATGTC
ACACATTTTTAAATTTTAAGGTTAATTTAGTCATTAATTCTGTCAAACAAGTGTTCTTTG
GAAGCTAGTTGTCTTCAATGTCTTTACTTGGAGTTACTTGAAGGTTTGCTTAA

Sequence 2027

GAGCTCCCCGCGGTGGCCGCGCCGCGCCGCGGCAGGTACAGATGTAAGTGGGAGATACCTGAA
TGTGCAGTCAGTGCCAAGTGGAGGCCTAGGTAGGTTTATTTGGTTATTGGGAAAAGGAGT
GGCACCAGAAAATTGGAGGACTAGAGGACAGTTGGGTGAGAGCAGTTTAGTTTCTTTGAT
TCTGTGCTAACTTTTTTGGATATTTGCTGGAAAATGCAATTTATAGAGGATATTTGCTCT
TGGCTATGGAATGCATTTGCTGTTTCTTCTCTTTATACGTAAGATACATCTGTGAGACC
CTCTACAGGAGATGAATTCCTGGTGTAAGAGAGTCATGTGAATATTGTGGAGTAATTATT
CTGAGCCAGGGGAGCAGGCTAATTAGCCTTCTGGGGAATG

Sequence 2028

AGGTACAGAGAAAATAAACTGACATATTTGAGTAGCTTTAAAAAAAAAACTTTTTTTTA
AAAAAGGCTGCATGATGAATCAGTTATGTGGCTTTGGACCAGTAAGGAGTCAATTTCAA
CCCAGACTGTTCTGACTTGAAGGCCATTGTGATTCCATGTCTAACTCCAGAATATTGTT
TTCACAATACCATAACATCTTCTAACTGAACAAAATACTTGCACGAAATAGTTGATTCT
CTTCTTCCAATTTCTTTTCATTCATGGAAAGGGAAAGAAGACACATTGAATTAAGCATCC
AACAAATATAAATACAGCATTAACTTTAATGCTATCTCAGCAAATATTTTAAAGGGAT
AAACCAAAAG

Sequence 2029

CCNCNGCGGTGGCGGGCGCNGCNCNGGGGATCTCACTCAATCTTACTCCCTTGTAACA
GGCGATATCTTCACCATGCGCACAATGAAATCAATACTCANAGAAGGCAGATNATTCTCC
ACGAANCCNGANAATAAATAAATGAACAACTTGGGTGAAATGTCCACCAGACGGTGTGA
TATTTAGTAGCCAGAAAGCTGCCAAGGGGTTGAATGACACTATCTGAAGATATGAACCA
GTTTGCTCTCCATAGGGAGGATTTTCATCAACAGGAAACAGATGCCTGGAAGGCATTGGAT
TTGCTAAGTGTCTATGCCATATGATTCTGCTGTTTGCCTTTGATTAGAATGCTGAGCTG
ACTCAAAGTC

Sequence 2030

CTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGCCGCGGCAGGTACCGTTCCT
CCAGTGCCCAGAGATGCTCTCCGCACCAAGCCACAGATGTGGAGGAGGCAGATGTGATAC
TCTAACAAATGTCTGAAGCTCTGTCACTTGGTGCTGAATCCTTTTCTATACTTCTCAAT

Table 1

ACTGGTCAGGATTTTACGGTGTGTCTAGGAGAGAGCAACCATGATGGGCATGCAATGCT
CAAGTTCACAGAAAAACATGAATAGCAAGACTCAAATCTGGCTGCCAGATTTCTGCAAGG
TATTTTTCTCTCCAAACGAGGTAATGTGTTTCTTATAACAGTCTTTATAATAAGGAGATG
TGTGTGGAAAAAATCAAGTGTTAAACGGAGTCATGCAAATTAGCCATCTGGATAAAAC

Sequence 2031

CCGCGGTGGCGGCCGAGGTACGCGGGGGCCCTCAACTTCTGAGAGCTTAAGGTATTTGTT
CATGTTAGGCAGGTAATGTCTATAAACCAAAAGCTGCCACATACTATCTCTCTGCTCAAC
ACTTTACTGGATACTGGAGGATTTAAGGGAAGGAAAAAAGTGACCTTTTTTGCCTTTTTA
AGAGCTTGTAATCGGTAAAGGAGATAAACTCACACAAAGGTCAGGGTATATTTGTGCT
AAGCATATGACGTAGACATTTAAGTGCTGCCGTAATGCAGAAGAGGAAGAAGTGGTGTA
TCTAGAGTAACATAGGTTTTGTTTTGTTTTGTTTTGTTTTTCTTTTTCTTTTTCTTT
TTCTTTTTCTTTATCTAGA

Sequence 2032

CCGGGCAGGTACCCCTTCACTCTTTAGGAGAAGGTTTGAAAAAACTGTGTTTCCTGTTG
AAGGCCAGTGATACCTGGCAGCTTACAGTTAGAAAACTCTATAACTTTATTATTTTCATT
TGCACTTAAAACTGCTATGAGTTTTTAATGCAAAAAATAGTGATTGAGAAAGAAAAAAG
TGAACATATTTATATTTCTCCCCCTCAGAGAGAAACACTGTTAACATTTTGTGTATTTG
GTCCAGGTTCTTTCTGTGTGTGTAAGCACACATATGTGTTTATATTGTATAAAATAAGA
GATTCATGCTGGACATACATTGTTGTAACCTCCTTCCTTCCTTCCTTCCTTCCTGAG
CTAGGGTCTCGCTCTGT

Sequence 2033

CCGCGGTGGCGGCCGAGGTACGCGGGAAGGTTAAGCATTTGTTTATTAAATAGCACAGAT
TTCCACCCCCATTTGGTTTATCTAGTTTCCATTTGTAGTAACATAAGAAAACTCTAA
AATGCATCGGGAGGGAAACACATTTAAAGCTCTGGAGGCATAAAACCTGCATATAAAT
CAGGCTGCACCGATTGATAAGTGTTACTTTCTCAATTTACTTATTTCTTTTAACTT
AGTTTTCTCATCAGCAAACTATCTTAATTACATGACTTTGTAATCCATAAAGCTTGCTTC
AAGCTCTTAGCATGCACACAGCACATCTGCAAAAGTAAGCATTTGCCACTTTCGGTTCTC
AGGATAACATATTCACCCCTCCCTACCTACTAGCAAG

Sequence 2034

CGAATACGACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCAAT
GAAGAGTGGCTACTTTTATTAGATCATAAACAGTTTCCATGTTACTAACCAGACTTTACG
ACTATTAAGATAGCATCTTAACCTACGACTGTATAAATATTTTATGATCAATAAATCTTA
ATTGGTAGACTCTGAGAATAAAGATGGTGTTTTTCCAACCCCTCAATATTTGCATACGTA
AAAGTATTTAGCTACTATTTTAAAGCACCTAACCGGTATCTGATGTTAAGTGCATGCAAT
CATGAAACATCTTTATGAAACACCTAACAGGATATGGCATTACATGAAGCTTTTATAAAA
GCAATTAACCAAAATAGCCTTTACCTCCTGGCAACTTAACTCCAGCCAAATATTGATG
CAGACTA

Sequence 2035

GCTTTGCTCCAGGCCTCAGGAGTGTAAGTTTAAAGGTCGCGAACCTGGGTGGGACGGGGCA
GTTTTTCCAGCGGGCCATACGGGAAAATTTTTGGTTTCGAGGAAGACAACCACCCTTTTTA
AGGAGAAAACCTGCATCTTGCCCTGCGTTATTCCTACGCGGTGCCAGGTGGGGTGTGTG
GGACCAGTCAATGACCGCCCAAGCTCTCCGAGTAGAAAACCAACATGGTTTTGTGGGG
TGTGTGCCCTTGACCCCGGACTTAAGCA/AAAGCTGGTCTTGGGCGTAGCTACGAGGTG
GTTGGTGGGCTCCAGGGCCTGCGTGCCCTCGACGTGAGCGATGATTGG

Sequence 2036

AGAAGCATTCAAGTCAGGTAACGGGACAAACAAGAAAGAATGTAGGCAGGTAATTCTGGA
GACTCTGAGAAGAACAGTTGAGTGAACCTCACTTCAGATGCATGTAGATTATTTGCACTCC
ANAATGTAGACTGTGGGCACTCCAGAGACTACCAGAAATGGGGGAACCAAGTGAATCAT
TAGGTTTCTCTGTTACAATCAGGCATGAGAAATATATATTTTGTGATGTTAGCTATT

Table 1

GAAATGAGATATATTGGAACTGAGAACATTGGCTTTATGTTTAAGGAAGTGTGTTGTTT
TGGTAAAATTGCCATTCCACAAAAATTT

Sequence 2037

TCACTNCTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGGCGCCAGGAAGCCGCCAT
CGCGGATATTCAAATGGACCAGGGAGCCGCGAAGTATGGTTCGTGCCAGCGCAGCACGA
ACGCCAGGCGCGCCGCCAGCAGGCCGCGGATCAGCAGGTCGGAACGAGGGGGCCGGCGT
CGGGCAGCTGGCGGTAGCGCCGAGCCACCACGCCACGCCGTAGGCGACGCACAGGGAAA
GGAACAGCAGTACCAGGCCCGTGGGCAAAGCCAGGGGGCCGATTTGCAGGGACAGCATGG
GCGCTCTCTATCACGTCGAATGGACGGCCATTGTGGCCCATGCG

Sequence 2038

CCGCGGTGGCGGCCGAGGTACAACCTTGACAGTTTATAAAAATGCTAACCTATATCAACAT
TTTTCCCCACCAAAGTGTTCCCAAGGGCAAAGGTAAGTGAATACATGTTCCATGCTTGT
GTCAGGGGCACACAGCAAGGGAAGGCAGAATGGGCATGACCTAGATTAGATCCCAGAAGC
CTTCAAATTCCTTATAAGACTTGGGACTGCATCTTAAATAATATTGTTTTTTTTTATTTC
TTTGATAATAAAGAATGGAACCAATCCTGGTTGTCTGATTCTTTGCCAGTGCTCTTT
CTTATGTCTAACACTGCCTCGTCTTATGAATACTCTGACATTACAGAGAAAGACTATTG
TTTGTTCAAGTTCAACACT

Sequence 2039

CGACTCCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTT
TTTTTTTTTTTTTTTTAAGCATATCCTCACTTATCTGATGTAAATGACCAAATACCTA
ATTCATGCAAGGCTTAAACCTAGGNGACGGGTGGCTTAAACCTAGGTGACGGGTGA
TAGGNGCAGCAAACCACCATGACACATGAATGCTTATGTAACAAATCTGCACGTTCAACA
CATGTNTTTAANAACCTAAAGTAAATAATTTTTTTTAAAAATGCAAAGAAACCATAGAT
TAAAGAGTCAACAAAATAAAAAGAAAACAAAAATNTTTGATTAAACCCAAAAGACAGCAG
GAAAGAAGGAACAGAGATTAATAAATNTGGGATAAATNCAAACTAATAGAAAATTGATN
TAATTTTT

Sequence 2040

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGGGGGCCNTNGAGACTGNCNTGGN
AGACTGGNNAGGTCACGTNTCTNAGACTTCTGGNGAGACCATNCANGGCTTTGGCTCTT
GACANAGATNGACCACTGGAACACTGACNAANGAGAGAATTCTACTGGTCACANACAAGA
CTCTCTTGATCTGCAATACCACTTCATCATGCTGAGTTGTGTGCAGCTGCTGCGGATTCT
CTCTGAGCGCTGTCTATCGCATCTGCCTGGGCAAGTTCACCTTCCCTGGGATGTCCCTGG
ACAAGAGACAAGGAGAAGGCCCTTAGGATCTACTGGGGGAGTCCGGAGGAGCAGTCTCTTC
TGTCCTCGCTGGAACCCATGGTCCACTTGAAGTTCCTTATGCTACTTTCACTGAGCATCCT
ATGAAA

Sequence 2041

GGGGCCATTGAGACTGCCATGGAAGACTTGAAAGGTCACGTAGCTGAGACTTCTGGAGAG
ACCATTCAGGCTTCTGGCTCTTGACAAAGATAGACCACTGGAACAATGAGAAGGAGAGA
ATTCTACTGGTCACAGACAAGACTCTCTTGATCTGCAAATACGACTTCATCATGCTGAGT
TGTGTGCAGCTGCTGCGGATTCTCTGAGCGCTGTCTATCGCATCTGCCTGGGCAAGTTC
ACCTTCCCTGGGGATGTCCCTGGACAAGAGACAAGGAGAAGGCCTTAGGATCTACTGGGG
GGAGTCCGGAGGAGCAGTCTCTTGTCCCGCTGGAACCCATGGTCCCTGAAGTTCCTTA
TGCT

Sequence 2042

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGTAGCTTGCAGGGGTGCTATG
TGAAGATGGCGGAATCCCAACGTGCTTCTGCAAAATTTATGTATTCATCCCCCTCTGC
TCTCAGTAGGGTGTTACCACCTGCGGATCCTTTGCTTTCCCCGCTGGATACTAACAGCCT
TTTTCATAATTGCTAGCACCTATGGAATTGAGTGTGAAGTGAACAAACAATAGTCTTTC
TCTGTAATGTCAGAGTTATTCATAAGACGAGGCAGTGTTAGACATAAGAAAGAGCACTGG

Table 1

GCAAAGAATCAGACAACCAGGATTGGTTCATTCTTTATTATCAAAGAATAAAAAAA
ACAATATTATTTAAGATGCAGTCCCAAGTCTTATAAGGAATTTGAAGGCTTCTGGGGAT
CT

Sequence 2043

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACGCGGGG
GCACAATGAAATCAATACTCAGAGAAGGCAGATAATTCTCCACGAAGCCAGAAAATAAT
AATGAACAGTATGGCTCCACATAAGGTAGAGCGTGTCTGGTGCCCTGCCGTTTGAAAAT
GACCCAAAGGCAGGAGTGGAAGATGGAGTTTCAGCAGGAGAGACTGAGGATCTCAGAGGA
TTTGCTCTGGGATGCAGAGACGCTTGCTATTTGCTAAGTGCTATGCCATATGATTCTG
CTGTTTGC GTTTGATTTAGAATGCTGAGCTGACTCAAAGTCAAATAATTTGCTAAGTGTC
TATGCCATATGATTCTGCTGTTTGC GTTTGATTTAGAATGCTGAGCTGACTCAAAGTCAA
ACTGTAAGTA

Sequence 2044

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTTTTTTT
TTTTTTTTTTTTTTTTTTGGGACAGCTTTCTATTCTGTACCCAGGCTGGAGTGCAGTGG
CACAATCTCAGCTCACTGCAGCCTCCACCTGTTGGGCTAAATCCATCTTCCCACTTCAGC
CTCCTGAGTAGCTGGGACCACAGGCACNCATCACCCTCCCGGCTAATTTGTTTTTCAT
AGCACATTACATTACCGATTTCCAGTTTATAAGTAACCAAGATGCTCAAACAAGCAAA
ATTTTCCCTTGAGTATGACTTACTACAAAAAGAGAAAGAACAGAGAAATTAGTTCTGAAA
GTGCATTTTTNTAAGGCCCATTTCAGTATTTGATAGCTCANATCATATANGAAGTTTTAA
TCAAAATGCTAAAG

Sequence 2045

TCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTCCTCCCTATG
CATCTGCTGTGGGAAGTGTGGGTAACACAGATGATGCCACAGGGCATGTATTACAGGCA
CCACAGGCAGCAGTGAATGAATGAAGTGAATGGTATTTATCCATTTCTGGAAGGTCC
AGGGTTTGGCTCTGCAGGGCCAGAGAACAGCTTTAGCTGTGCCTTAACCCAGTCCTGGA
GAAGCCAGCAGGCCGTAATCACGGGGAGGAAACCCATCTTTTAAGGGCTCCTCGCTCAGG
TGGTGACAAGGTGAGGTGGTCATCTATGCTGTCTTTATCAGTATCTGTCCTAAATACTGT
GCTCTGACATTTGATGCTAATATCCATATTATCAGGGCTTCTGTGGTGTTTAGGCCTCT
AATTTTCTCTTC

Sequence 2046

CGACTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGTACCGGCGCCGCTGGCG
CTCAGGACCGCACCCGCGTTGAGCGTGACGTGCGCGCCGATGCCGCGATAACCGAGGTCG
AAGCCGCAGCAGTTGGCGGCCAGGTTGCGCAGGTCTCCCACCGTGCCGGCGCCATTGCC
TGATTGATCAGTTTGATGGTGGCGCCGGTGATGCTGTTGACGCTGATGGAGCCGCCATA
TGGTTGGTCTTGTCGCTGCCGTCCGCCATCAGCAGCGACACGTTGCCGGTGCCGGCGTG
ATCTTCGCCGCCACGCCCTGCTTGTCGACGCCCATGCTGAAGGGTGGGCGATGCCCGCG
TCGCGGTAGGCCGTCNTTGAACNCCCGTTGGCCAAANCTTGTCGTTGGGCGGGT

Sequence 2047

[illegible]

Sequence 2048

CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGAGACCTGACGCTGGGAGGAGATGCTG
CCACCTAGGTTACTTGTAGGACCCTATACGGCAACCTCCTTTGCCAGGAAGTATTTATAA

Table 1

ACATCCTGCAGGAAAATGCAGTGAAGTAGAAGAGACAGGGATATCCCAGAAGGTTATGCA
AAACATCAAGAGAAGATGAGAGGTCAGAGATGGGAAGAAACAAGAACTTTGACATGCTTG
GTGTTCTTGCCCAAGCTTTGAAGAAGTTTACAAAGTCTATATGTCAGAATACACATTTCC
CACCTTGCCCAACAGTAGAAAAACATAAGAAGAGAAAAACATTAAAAAATGACAAGGGAA
GTTTAATGGGAA

Sequence 2049

CCGCGGTGGCGGCCGAGGTACTTACAGTTTGACTTTGAGTCAGCTCAGCATTCTAAATCA
AACGCAAAACAGCAGAATCATATGGCATAGACACTTAACAAATCCAATGCCTTCCAGGCAT
CTGTTTCTGTTGATGAAATCCTCCCTATGGAGAGCAAAGTGGTTCATATCTTCAGATAG
TGTCATTCAACCCCTTGGCAGCTTTCTGGGCTACTAAATATCACACCGTCTGGNGGGACA
TTTCAACCAAGTTGTTCAATTTATTAGTTTCTGGCTTCGTGGAGAATTATCTGCCTTCTC
TGAGTATTGATTTCAATTGTGCCCCCGCGTACCTGCCCAGGCGCGGCCGCTCGAAATTGT
TATC

Sequence 2050

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACAATAAATACTTTC
AACTATTTTGTTGCTAGCTTTACATATTTTTCGATAAAAAATAGCTTTTCCCAAAAGG
AATAAAACTAAACAAAAAATTCAAACATCCAAAAGTTAACATCCAAAAGTGTGGTTT
TTCTTCTCAGAAATAGCAATTTGTTCTGCTTCTCATCAGTCCCACTTAGGCTCTCTAG
GACTTAACTGAGCAACTCCTAAGATCCAAGTTCCCTTAAATTCCTACAGGCAGTGGTCCC
ACCAACAAAGACTTCTCTACTTCTCCTTTGCCTCCAGATGCTCAGACTTGGGCTTCTGGT
ATTCTGAAAGGCATCCTTGTTATTTTCTACCAGAGATTGTTGGATTGCCC

Sequence 2051

AGGTGGCACGGTGTATGAAGGCCTGTGTTTGAAGACTTAGGTCAGACCTTTTGCCCGCCT
TTCCCTATGCAGCTCTATGCAACTGTCTGTGCAAGGTCCTGTAATTTGCGTAGGACGCC
TTGACACAGTCTCTGCTTATGGACGCTTACAAAACATCTTGCAAAGAAATAAGTACCT
GCCCC

Sequence 2052

ATATATTCACCCCTCATGGCAAATATGAAAGATTTCCATTGGATGAGACACTGAACTCAG
TAACCACAACATGNGGGGCATAATGCAATGAAACTAAAAACATATTCTTAGGAAAGAAA
AATGAAAGNGAGGAAGTAAGAAAATTTTTT

Sequence 2053

GTCCGAAAATTTTGGGGTAAGGCTNCTCAACTCCGTCGNGTTGGTGTCGGGTCTCCGTA
AGGGGTACCTCCATTTTGGTGAAGGTNACTTTANTGTGATCCGTCNATTNCTATCNGGT
GGTCTCTTNACCGGTGTGCNAATTCANGGGTCTCCTTTNANAAGNCNCTCTTGCAATAT
AGGNAAAAACCAATCAGTCTANTTCNAGNNGGGGGNCCNCTGGCTGGGCAAGGNA
GNCNCCGTCTCCACCNCTTGNAAGCCCCCTTCAACCCCNCGGCTTTTTAAAGTTTTNCAA
TTAANANAAAAANCAANGCNCNCCCTTTGGGTGGNTGCTCCTTTTTTGCTTACCCAAAAAN
ANGTCCCCAAGGGNTTCCGGTTGGNTTATTTNTNCTTTAACTCCCCATCCAAAGNTTG
TTTGAATGNGGGAAACCTTNCCCCAAGGNCCGGNTTATGGTANCCCAAGGTCTANAN
AANCCNAACCAAGAAATAACCATTTTGGNTTATCTANCCCTTTTTTTTTTGGNAANA
ANATCCNAAAAAACAATCCCAANGGTCGTNTTCAAGGGTGGATNTAAAAAGGNCCAAAA
ATAANAACCAANAAAAACCAAAAAANCCCCAANCCCAANAATTTCCCTTCAAAAAAACCT
CAAAGNCCTCCCGGNCCNGGTAAGGGGGGAAATAACCCCCCTTTTTTTNCCCTTTTC
CCCCGGCNGGGTNNAACCCCTTTGGGCCCCCCCCGGGGGGGNCCTGGGGGGGCTCCCG
GTTCNTTTCNTTTAAAGGGNAAAANCTTTATGGNTTGGGGGGGAAATTTCCCCCCCCNC
NC

Sequence 2054

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGA
CAATGAAATCAATACTCAGAGAAGGCAGATAATTCTCCACGAAGCCAGAAAACATAAAA

Table 1

TGAACAACTTGGGTGAATTGTCCCACCAGACGGTGTGATATTTAGTAGCCCAGAAAGCTG
CCAAGGGGTTGAATGACACTATCTGAAGATATGAACCAGTTTGCTCTCCATAGGGAGGAT
TTCATCAACAGGAAACAGATGCCTGGAAGGCATTGGATTGCTAAGTGCTATGCCATAT
GATTCTGCTGTTTGCCTTTGATTTAGAATGCTGAGCTGACTCAAAGTCAAAGTAGATGGA
AGCATTGACTGCCGGCACAAAGATGTTTGGTG

Sequence 2055

TCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGTAGCTTGCAGGGGTGCTATGT
GAAGATGGCGGAATCCCAACGTGCTTCTGCAAAATTTATGTATTCATCCCCCTCTGCT
CTCAGTAGGGTGTACCACCTGCGGATCCTTTGCTTTCCCCGCTGGATACTAACAGCCTT
TTTCATAATTGCTAGCACCTATGGAATTGAGTGTGAACTGAACAAACAATAGTCTTTCT
CTGTAATGTCAGAGTTATTCATAAGACGAGGCAGTGTAGACATAAGAAAGAGCACTGGG
CAAAGAATCAGACAACCAGGATTTGGTTCCATTCTTTATTATCAAAGAATAAAAAAAAA
CAATATTATTTAAGATGCAGTCCCAAGTCTTATAAGGAATTTGAAGG

Sequence 2056

CCGCGGTGGCGGCCGAGGTACTTCTGTGACATGTATCACCAACTCACACAGTGATTCTTA
CGTTCTTAGGTCACTGCTTGGATTATGCAGCAAGAACAAGGCCATGTAAGGGGTAGGGGT
GGGGCCAGGATTAGACCTGATCATTGAGAAATGGCAGATGGTAAGGGGAAGGTCAGTCGCA
GATACCTACACTGGTAGGAAATAAAAAGCATATGAGACAGAACANAGTATTACAAATGAA
GTGTACAGACCACAGGTCCTGGGGTGTACCTGCCCGGGC

Sequence 2057

CCGCGGTGGCGGCCGAGGTACTTACATGGGGACCGCCAGGGGCCCTCGAGAATCGGTATCC
TGAGTCCTCTTGAAGAGCAGTAGAGGTTGTTTCATTAAGTGCAAACACATTGTTCTTAAT
TTGAAAACGTGGGCAGAAACAGAAGCCCGAGACTAATTTTCCATTGCTAACTCTAGAT
TCT

Sequence 2058

ATAGGGCGAATNGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACAATCTCTGGCCC
TACATTTTCTAAACGTTATGCCACCCTGACCAAGGGGCAACTCCTACAAAGCCAGGCAAA
ATAATAAAATCATATTTGTCTCTAGTGGAATGGATAACTATGCCTAAAACCTGCCCTTTG
AAAAGCAACTAGAGAGATAATTTCTGAAGTGTTTGTCCCTACCTGAATGTGTGGCAAAAT
TCTAAACTCCCTGAAGTGTGAAAGTGGTTTCAAGCCACATGCACATCCAGTTGTGGTAA
AGGGTGAAATCTAACTGGCTAAGAGGGCTTCATAGCAACATTAACCAAAAAGTGGTTAT
GTAGACTTTGCCTGCTTCATAATCCCTAGGGCATTCTATGCTATTCTGTACCTTNGGCC
GCTCTAGAACTAGTG

Sequence 2059

TCTCCGGCTTCTATTTTGGCCACCCGGAGTCGAAATACTTCGTCGTCGGCAAGATCGGCA
TGGACCAGGTGGAAGACATGGCCAAGCGCCGCGGCCAGCATCGAGGACGTGGAACGCT
GGCT

Sequence 2060

TCTCCGGCTTCTATTTTGGCCACCCGGAGTCGAAATACTTCGTCGTCGGCAAGATCGGCA
TGGACCAGGTGGAAGACATGGCCAAGCGCCGCGGCCAGCATCGAGGACGTGGAACGCT
GGCTGGCACC GAATCTGTCTAGTGCCATAATATAAGCACAAAGGCGCGGGAACCTATCG
CGCGCCGNAGCGCACTAACGCAGTATGCCGGTCGGNATGCTGNATGCCCGNTCCGGCCCCG
TTCCCTGACTGGCTAAGGAGGATATATGGCAAGCAATTTCAAAGTGAACGCTGGCAAGA
TCAAGTGATCCTGTTGCTGGGCCTGTGG

Sequence 2061

CTATAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGGTT
TGTCATACTTTAACTTTTGTCCCTTTCCAGGTGGCCCATGCTTCTAGGCCAGCCTCCCA
ATTCTAGCTTGCTTCATGCTCCTGGTCTTTGCCTACTCAAAACAATCTGCTCTCCAC
CCTGTCATCTCTGTTGAGAGTAAATACCTCCCTCCCTCTGCTTTTGCCTAAGTTATTTT

Table 1

TTCAACTCACCTAACATCTAACTTGGCTTTGCAGCTCTGTTTCTCCAAAACCTCTCTGC
CTGTTTCTCCCAAGCTATCTATGACCAGTGCCAGAAACCAGAAAATCTTCTTGAAGTT
GCACTCTTTGCTTCTCTTCCCTCTCCTTTATCCTTCCACTTGGGAATCTCTCTCCTTCTA
CCTGTCTCTATCTGCTGCAATCCTGTTTCATCTTTTCCAGGTACCTnnnnnnnnnnnnnnnn
nn
nn
GCTTTTGTTCCTTTAANTGAGGGGTTAATTGGCGCCCTTG
GCGTAAAT

Sequence 2062

CGAGGTACAGCACTGGGCTTACAGCGGCGCTCAACAGATTTTTTCTTTTAAAGAAATG
AATCACTGAGGTTTAGAGATGTTAAATACTTGCCCAAGTTCCTGCTTGCCAGATGTG
CCTTGGGAATGCATCTTCTTCTCAAGCCTCCTTACAGGGGTTGTAGTGAAGATTGGAA
NGGGATAANGCAGGTG

Sequence 2063

GAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACGCGGGGGAGATGCTGCCA
CCTAGGTTACTTGTAGGACCCTATACGGCAACCTCCTTGCCAGGAATTTATAAACA
TCCTGCAGGAAATGTGAAGTAGAAGAGACAGGGATATCCAGAAGGTTATGCNAAACAT
CAAGAGAAGATGAGAGGAGTCTATATGTCAANAATACACATTTCCACCTTGCCCAACAG
TNGAAAAACATAAGAAGAGAAAAACATTAATAAATGACAAGGAAGTTAATGGAAGTCAGC
AATGTGATGGTGTGGA

Sequence 2064

CGAATTGGAGCTCCACCCGCGGTGGCGGCCGAGGTACCTCTCCTGGGAAGCTCTTCTTCA
AACATTGGTGACTCAGGGATTTGGGCTGCTTTCATCTTATAGCTCTGTCTCTATCAT
GGAGCTTTCAGGCCCTTGTGCGCCAAATCCTCTCCTGGATGCTTGGGAAACACATCG
ATGCATCCCGTCAGTCAGCAGCTGTTTACGGAAACACCAGCTGCAGGCCAGGCACCGTGCT
GCAAGGCGTAGATATGTTGCTGAACACGACTCCCTTCCAGATGTTCAAGGTTAACAGGC
AAGTAAACAGAGGGTCCAGAGAAGGCACTCAGCACTGCCTCATGACATCAGGGAGGATTG
CTCAAAGGAAGTGATGCCTAAACCCAGCTGGATCGNAGTGAATGGATAGAGGGGTAAC
AAGAGCTGATTTCTAGCGGTCTGAGTCTCGACAGGTTGCCACCGTCAGGAGTATTGAT
CTTTTCTCCCCGC

Sequence 2065

CCGCGGTGGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTNAGGNNATAT
GTATACATAGTAAGTGTATATTTTTGGGGAGAAGATCATGCATTTCTAGGACAGGAC
TAATACATTTAGCTGTGGCTATTATCAAAGAGCACCAGACCTTAGGTGGGGCAACCAGA
CTGGCTATGGGGCTTGATGTAAGCCAGACCCATGACCCATAAATTTTCAAGGTAGGAAG
TAAGCAATACTATAACTTGGACTCGAGGGGGAGCAAAAGGACCCCTCAATGGTGATGG
CTGCCCACTTGGTCTCAACACTGTAAACTTGGGACTTGCTGCCAAGCTCCACCAGGCAG
GGGGCAGAGGACACTGAGTCTCCTCCAAGTGAAGTCAAGGAGTGGCTCAGGAGCTGACACTG
GCCTAAGCTTGACAGCAAAGGGCCCCTACGTACCTCGG:

Sequence 2066

AGGTACGCGGGGGGGACAGGCCATCTCGCTATAGGAAAGGAAAGTGGAAACAGCATTATC
CTCAACATTTTACGAAGACAAAATGAAGACTGGAGTGAAGACTGATCAGTGCAGGTGT
AGCATAAAAGTGAATCCTGGAAGATGTGGTGTGAGAAGGTAGCACAAGTGAAGCAAAGA
TACAGGAGATAGGGAAGGAAAGCTGGAAGCAGAGGTCACTGGAGGAGAGGGAGATGGAC
ACATTCAAGGGCTACAAAGCAAGTCTATGTGATTTGCTCACCTCTTCAATTGTGGGACCC
CTCAAAATGTGTACCTGCCCCG

Sequence 2067

GTACCCGGGACGCTGGGAGGAGATGCTACCACCTAGGTTACTTGTAGGACCCTATACGGC
AACCTNCTTTGCCAGGAATTTATAAACATCCTGCAGGAAATGTGAAGTNGAAGAGA
CAGGGATATCCAGAAAGGTTATGCAAAACATCAAGAGAAGATGAGAGGAGTCTATATGTC

Table 1

AGAATACACATTTCCACCTTGCCCAACAGTAGAAAAACATAANAAGAGAAAAACATTAA
AAAATGACAAGGAAGTTAATGGAAGTCAGCAATGTGATGGTGTGGAGGTGGAGCCTTC
ATANGGTAATTAATGC

Sequence 2068

AGGTACTGACTAGACAATTGAGTCTCAAAGACGATAATTTATCCAACATAATTGTGTGAA
TAATGACAAAAAACACCCAGTTTTGGGAAAATTACAAATGCAATTTCTAGCAGACACTG
CTTGGTTATCTAGTGTGTTTGAATAAACAACTCCAAAACCTTCGTGGCTTGAAATAAGCAT
TATTTATCTTATTACAGTTGTTTGGGTTGATAATTTAGACAGAGCTTAGCTGGGATGGCT
TGCTTTTGCTCCATGTTATGCTGACTTGACTCACTCATCTAGTTGCAGTTAACTGGCAGG
GCAGCTGGAGCCTGGCTGGTCCAGATGGCCACACACTTTGTGGCTGGTAGTTGCCTGGC
ACTCATAAGGTGCCTTCATTTTCTCCACCTAGCCTATCCAGCAGACTATCTTGGGCATC
CTGGGCTTCAAGAAGAAAACCGCGATGTACCTGCCCC

Sequence 2069

AGGTACGCGGGGGTTTCCTGCGTTTGTAGATGGAAGGAAGAACTTGTGTGCTTAGACCTG
ACGCTGGGAGGAGATGCTGCCACCTAGGTTACTTGTAGGACCCTATACGGCAACCTNCTT
TGCCAGGAACCTATTTATAAACATCCTGCAGGAAAATGTCAGAGATGGGAAGAAACAAGAA
CTTTGACATGCTTGGTGTTCTTGCCCAAGCTTTGAAGAAGTTTACAAAGTCTATATGTCA
GAATACACATTTCCACCTTGCCCAACANTTNAAAAACATAAGAAGAGAAAAACATTAAA
AAATGACANGGAAGTTAATGGGAAGTCAGCAATGTGATGGTGTGGAGGTGGAGCCTTN
ACAAGGTAATTAATGCCCTTG

Sequence 2070

CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGAGTGAATAATTTGTAGGAATGATATT
TTCATGGGATTACTCAATCTCACCCACCATTAGTTGCGGGTGACAAGAAAGCTAAGTTGG
CAGATGTTTGTGCTAGAAGCTGTGGGTTTACGTCTCCTTTGTACATGTGTTCCAGACATA
CCAGTGGCTTGGTATTTAAACATCATGCTCAGGTGTGCAGGGTAGTTTTTGAGTTATAAT
AGGTATGCAGGCGCTGTGGGATTACTTGGTTGTTTATGTAAAAATTATTTGCACTCACT
TCTGAAATGAGTGTTAGTAGAATCATCTTTAGAGGAGGTTCCAAGGCATTGAACTGAGAT
ACCTGCACTGTTTGTGTAAATTTAAGCTTAAATTGAAACCAGGTTATCANCATTTTCAT
GCCAAGGANAGAGTGGGCATGAATGATTTTC

Sequence 2071

CCGCGGTGGCCGAGCGGCCGCCCGGGCAGGTACCTTAAAGTTTGAGTCTCACTTTCTCT
TATATATAAGGCTTCCTGAAAGCATTAAACAGTGATGTATATGAACTGGCCAATACAAAGT
AAGACCTCAATAAATGGTGGGCACCTTCTTTTATATGCCAGCTTGATTCTTATTGGACA
AGGTATGCAACCTCTTTGGGCCCCAATTTCTTTCTGAAAGAATCAATTCTAGTGCTCAAA
GATTCAGAACTTAGTGCTTACACTTTGGGAAGGAGGACTGATGTAAAGAATCAGGATTTT
CTGGACAAGTTGATGAATCTCCTCCCTCTCTTTGGTGTCCCTGAATGAGTGATAGATGGA
TAAAGTCCAGTGTCACATATGCACAGATGCTAATAAAATGAGGTGGAATGATGGTAAG
GCCTTAAAGTAGAAAGTATGAAACCTCCACTCTTGCTTGGCTTTCTCTCTTTCCCTTGC
TACTCACTCTATCT
CCTTAAATTTCTNNAAATCATCAACACCTTGTTNAAACACCTNCCAACCTTAGTTN

Sequence 2072

CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGACTCAATCTTACTCCCTTGTAGAACA
GGCGATATCTTACCATGCGCACAATGAAATCAATACTCAGAGAAGGCAGATAATTCTCC
ACGAAGCCAGAAAATAATAATGAACAGATGGCTCCACATAAGGTAGAGCGTGTCTGGT
GCCCTGCCGTTTGGAAATGACCCAAAGGCAGGAGTGGAAGATGAAGTTTCAGCAGGAGAG
ACTGAGGATCTCAGAGGATTTGCTCTGGGATGCAGAGACGCTTGCCTATTTGCTAAGTGT
CTATGCCATATGATTCTGCTGTTTGCCTTTGATTAGAATGCTGAGCTGACTCAAAGTCA
AACTGTAAGTACCT

Sequence 2073

Table 1

CCGGGCAGGTCAGCAGCTTTGCATGTTGACAAATCCGCTCTCTGCTGCAGATGCCTAGGG
GAAGTTGCAGACTTAAATTTTCTTTGTAAAATGGGGGAACACAAACAGATCTTATGTCA
CACTGGTTACTCCAGAAAAAAGAAAAAGGAAGGAAGAAAAAGAAAAAGGA
AGGAAGAAAAAGAAAAAGGAAGGAAGAAAAACAGAAGGAAGCNAAAAAAAAAAAAA
AAAAAAAAAGGTTCT

Sequence 2074

CGAGGTACTTCCGTGAGATATAAGGCTGATGATAAGGATTGGGGTAAAGAGTTGATTCGG
TCACACTTGACTGCCTTGAAATCTGTCTTGGCATCGGGTCCTCTTCTCCATCGATAGGT
GGTCAGTCTCAGAGGGTTGGTCATCTCCCTCTTGCTTCAGAGACACAGCCTGGAATCCTT
CAAACTCCCAATTGTTGACATTTCTCAGCCTGACTAGGCTGGTCTCAAGGCTCTTCT
TTCTCTTCTGCACAAAGGGGGCTAGACCACAGATAGTGCCAGGAGAGGIGTACTGGC
TCAGATAAAGCCAGGCAAGACAGTGCCCTGTGCTGTGACCCCACTCAGTCTGAATCTCAC
TTCACCAAGTAGGCTGAGAGTTACACTGCCACCCTCAAATAGTCAAAAAAAAAAGTACCT
GCCCCGGCGGCCGCTCTAGAACTA

Sequence 2075

CGACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACGCGG
GGATTATAATGTATGTTGGAATGTCTCCTTTGAGTAAATTTTACTTAAGGGTCTTTGGG
CTGCATAAATTTGTATGTGCATATCCCTATCAACATTTGGGAAGTTCTCAGCCAGTATTT
CTTTAAGTAAGATGTTTATCTTTCTCTCTCTCTCTCCTACTGGAAATCCATAAATTA
TATGTTTCATATGCTTGATAGTGTGCCATAGGTCCCTCATACTTTGTTCACTTATTTTATT
CTTTTTTCTTTGTTTCCCCAAGTGGCTAATTTTAAATAACATGTCTTAAAGTTGACTA
ATTCCTTCTTCTGCTGAATGAACTTTAAAGATTTTAAATAGAAGTTTTTGGTAATCAA
AAAGAAAAACATATAGTAGAAATGCTTTTAAAGTTTCAAGCATGGTGGCTCATGCCCTGTA
ATCCCAGCACTTTGGCCAGCCTAAAGTAGGAAGATCATTTGAGGCCAGGAGTTTGATCCC
AGTCTGAGGAACATGGCAAAACCCCATCTCTACTAAAAAACGAAA

Sequence 2076

GCCCNCGAGGTNCCCTNNGGACACCCTTTTTTACCATGATCCATTTTTTGAATACAAAGA
CACAGTACCCCGCTTTTGGGAAACAAGTAAAAATAGGGGAATAGATAAGAAAGTTTTT
TGCTTACTTGTTTTGTGTTTTTTTATATTAATACTAAATTTTCACTTCACTANTAAAGTT
TTTTTAAAGAATAAATTGCTTGCTGGATGTATTGAGGTAATAAAAGTTTTCTTTTCT
TTATATGAAGCAATATAGGATATTAGCTTTATGAGGCACTTGCCAGTAA

Sequence 2077

CCGCGGTGGCGGCCGAGGTACAAACCAGGGCTGTTACTCCTCAACAAGGAGGAATAACGC
CTCTTAGAAGCATGGCAAGCAGGTGCCATAAACATGTCTACTACAATTTCTCACTGCCT
GGAATAATTGAAAAAGTTTCATAAATGCTCTGGCTTTCAAGTTCTTCACTTTTGCAATAA
AGCTGCTAAGTCTGGTTGCAAAGCTTTTATGATGATTAGAAATAATATATGTAATGCC
TGATGCACAAGAGTCACTCAATAAGTGACAGCAGTGATTAATCTATGACATANTAAAA
AGTTCTAACTTGAAACACGAGAGAAAAAATAACTTCCAGTGCGNAAAGAGATAATTTCA
TGATCTCAGGGACACTAA

Sequence 2078

CGAGGTACTCAAATCTCTGCCTCAGGAAAAACATCCAACCTTCAAAGTTTCTGGTAAGGGT
TGTAAGGAAGCAATTAGTGTCAATTAGAAAGAACTATCGATGTCACTATGCCAAGGGAGA
AAAGGGGTAGCAAAATGAGAAAGAAGGCATGAGGCACAGACATTGAAAACCTAACCCTGTA
TTTAAGCTTAGTGTATTTTCGCTTTGCCCTACTCCAAGTGGGGAGTTTTCATTGCAGGC
ACTACAAACCCCAGGTATGACAATGACATAAGAATCAGGGAAGTGGCTGGAAAGGGAAAG
CTATATAGTTAGACTGGCCTGCCCTTGAGTCCTGCCCTGCCATTTGTACCTGCCCCG

Sequence 2079

CCGCGGTGGCGGCCGAGGTACTGCAGGAAACCATGTTGCCAGCACTCTCCTAGCCCAA
AAAATTACATCTAGGAAGCAGGGGCCATTAACTACTGGAATCATTGACTATGTCATAGA

Table 1

AGTCCAGTCACCCCGCAGGAACCAGAATCTTCCCATGGATATTTAAACCCAATTAGAAAT
GGCCACCAGGTGGTGCCAAACTGCAGCTAAGGTCCAGGTGAATTTGAACCATGCAATCTT
GGATCTTTTGGCTCTCCTGGTGATTTTTATAGAGTTTTTTCATCGTTAATCCATTTATG
AATAAATGCTGTGAGTTTTGATAACTCTTCTTATTGTCTATAGGTAAAACAGAAAACCT
TTAGCATTGGATAAAAGTCTTCTTATTTTTACTGNGACCTCTTCTTCTTTTGATCT
CTAATATTTAGTCGCATGGGAACACCAACTGTAACTGAATTTCCATTTTTCCAT

Sequence 2080

GGAGCTCCCCGCGGTGGCCGGCCGCCCGGGCAGGTACGCGGGGGTTGTAGATGGAAGGA
AGAACTTGTGTGCTTAGACCTGACGCTGGGAGGAGATGCTGCCACCTAGGTTACTTGTAG
GACCCTATACGGCNCCTCCTTTGCCAGGAACTTTTATAACATCCTGCAGGAAAATGCA
GTGAAGTAGAAGAGACAGGGATATCCCAAGGTTATGCAAAACATCAAGAGAAGATGAG
AGGTCAGAGATGGGAAGAAACAAGAACTTTGACATGCTTGGTGTTCTTGCCCAAGCTTTG
AAGAAGTTTACAAAGTCTATATGTCAGAATACACATTTCCACCTTGCCCAACAGTAGAA
AAACATAAGAAGAGAAAAACATTAATAAATGACAAGGAAGTTAATGGAAGTCAGCAATGT
GATGGTGTGGAGGTGGAGCCTTCAGAAGGTAATTNATGCCCTTGTAAGAAGAGGCCAN
AGAGCTTGGCACCTTTTTCTTGCCATGTGANGAGCCANGAAGCCGGCTGGCTGCAACC
TGCA

Sequence 2081

GGAGCTCCCCGCGGTGGCCGGCCGAGGTACACTTGCCAATTGAGATAATATGAAATTGTA
TTCCATTTTAGTTTTAATTACATTTCCATGATTACTGCTGAGGTTTAGCATCTTTTGAG
TATTACGGAATTTAGTTTACTCCTACGTGCATTACATTTTCATAATTTTGCCAGTTTTT
CCTTGGGTTGTTTTATTTTCTTACTGATTCCAAAGGTATCTGTAAATTATTGAAATGAA
TTATTTTAGTATTGTGCTTTTCAGCTTTTCTTTTCACTTTAATTGTGCATTACATCATAT
AAAAGTTTTCATTTAATGTAATCTTAGTTGNAAATATTTTAAATTTGGTTTGGTTTTT
CTGNTATTTTTTA

Sequence 2082

CCGGGCAGGTACAGGAGAGTTCCCATAGACTNCTGCCCCCTNCCACAGACAGACTACCCT
AGAATATTGTAAAGGATCTATCACTCATTTTCTCACCTCTCTTATAGATGTCTCTCTT
CAACAGTGAGATTNTTCCGTAACCTCTCTGTNNCAGGACTGGGCTTGTGCACTCAAATC
CATGACTCATTGTTTCTCTGCCCTTCCGTGTGTACAGGTGGGCTGATCCCCCTGCAGCC
AGTTTCCCATAGCAACTGACTTCCAAGTGGGAATGTCTCGGGGGATAATGGGGGTGGG

Sequence 2083

AGGTACTTGCAAACCAAATTGGCAGCATATTAAGAATTACACACCAGGGAAAAATAACC
CTAGACCTTGCAATTCTAGTGCTCTGCTTATCTGTGACTTCAGACAAAGATGGAGAGAGCT
GACCATCAGTATAATTTAGCTGAATGAAATAATGAGATATTTTAGGAAGAAGAACATTGA
ATGTCAGAAGTTAAATGTGAGATCCAAGAAGTAACAGTGAACAGACAAGTTTGTGGGTAT
GTGGATATGTCTTAAATAAGTCAGGTTGTGTCAAATTATGATGGATGATGACTGCGA
GGCAGGAAGGAAGATGAAAAGGAGGAGGCATTGAACACTAATGGTCACAGGGAGCACCCG
GGAGCGTGGTGACCCAGGGTGAGCTGCTTGTCTGTGAGGGTGGAGGGAA

Sequence 2084

CGAGGTAAGTCTGACATCATCTGACATGGCAGCTCCCCAGCCATGGTGGTGGTGATAGAAA
TATAAATGGTGACAGCAGCAGCAGTGATAGTCACGGTGGAGGGAGATTGCTTTTCTGC
AGCCAGGCTTCTGGATCTCCCAACCTGGGTGGGAGCCAGCTGAAGATCTGCAGAGAAACC
AGCCATTTCTGAGAGCAAGGCAATCAGTGGGCATTTACTGGAGGGTGTCTAGGTTCTTAA
CATCTCACTGTTATTTGGGCTCATGGGATCATAAGAATGACAAAATAAGAGAAGTCCTN
ATTTTNTTACCACAANAAGCTTGACACAATTTCCAGTAAANTCTTGGATTGAAAGGAGAG
ACATGTTTTCATGTGTTTTATATCCCTTAACAACCCAATA

Sequence 2085

CCGCGGTGGCGGCCCGAGGTACTCCACTTGTAAGTCTTCTCCCCTGATGCCACCACTGA

Table 1

CCTCTGTAGCCATGGTTCTGCAAGTTCTCTAATTTTCTGAGCCTCTGAGTCACTGACGAA
GTCATGGTAGAGAGCAATGTAGGGCTCCAGGTGGATGACCTCCTCCGGATGGGCTGGAG
CAGCAGGTAGGCGTTGGAATTGGTCTCATAGGAACAGTAGAGGCTAGGGATCTGGTAGAG
AGTGGGCTGGGAACCCAGGGTCTGACATAGCCCCTCGTAGGTGTCTCTGGTCTGCAGGTG
GGGTATATTGGGCCTCTGGATGACGGCCTCAGCTACCACGTGGTTGGGGCTCTCTGCCAA
GAGCCTTTCATATTCAAGACATTCTGGCCATCCTTATTATCTGGGCTGTAGAGAAG
AAACTCCCGCCGCTACCTGCCCCG

Sequence 2086

GCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACTTACAGTTTGACTTTGAGTCAGC
TCAGCATTCTAAATCAAACGCAAACAGCAGAATCATATGGCATAGACACTTAGCAAATCC
AATGCCTTCCAGGCATCTGTTTCTGTTGATGAAATCCTCCCTATGGAGAGCAAATGGT
TCATATCTTCAGATAGTGCATTCAACCCCTTGGCAGCTTCTGGGCTACTAAATATCAC
ACCGTCTGGTGGGACATTTACCCAAGTTGTTCAATTTATTAGTTTTCTGGCTTCGTGGAG
AATTATCTGCCTTCTCTGAGTATTGATTTCAATTGTGCGCATGGTGAAGATATCGCCTGTT
CTACCCCGCGTACCTGCCCGGGCGGCGCTCTAGAATA

Sequence 2087

GCTTTTAGAGGGATGGGGCACGGCATCTCAATACCATTTCCTATTTTTGAGATGGTTGCT
TCATTCAAAAGAAGCTACATTCCACAAGCAGGTGTCTTCTTCTACTTTATCAACTCATC
CATCTTTTCCACAAATACTTACTGAACACTCTCTATGCCTGTCGTATTGCAGACATGC
GGAATATATCGACAAAACTGACTGAACTTCTGCCCCTGGGGTGCTTCTTCTTTATCTG
GCTCAAACTCTGTTGCTGCAGGTGCTAGCTGCAGGTTGTTGCTCATTAAAAAGGAAAA
TCTATTCTACAATTAGAAAAATACCTTGGGAGAACATTGCAAAACAGTATTTGAATNAGT
NAAAGCTGGTGTCAACCCATAGGAGAAGNTTGTACCTGCCCGGGCGGACGCNCTAGACTA
NTGGANCCCCCGGGCTNNAGNGAATTCCATATCAAANTAANNGAACNCGTCTACCTANGN
GGGGGGGCCC

Sequence 2088

CCGGGCAGGTACGCGGGGTCTTACCTCAGAGCTGAGCTGGGCATGAGTAGATGCTCAGTA
AGTGGTGCACAGGGTTGGTCCCTATGGTGGAGGCCCCCTAACACCGCCCAACCCCCCTCC
ATGTTCTCACAGCTCCACGCACTGAGCACGGGCATGAAGGCCATGATGTCAGAATTCTGC
ACCCAGGGAGCTGAGATGTGCCGCAGGGCCTGTGGCGGACATGGCTACTCAAAGCTGAGT
GGCCTGCCATCACTGGTCACCAAATTGTGGCCTTCTGTACCT

Sequence 2089

GATCAGCTTGATATACACTTAGGTCATAATACTAAATATGAATATTCGTTTTTNCCAT
AACCATAGGGTGTAATCATATGCCTATGANTCTGATCCTCTACTTTATCCATCTGAATGC
TTCTCGATCCACTCATGCAAGATGTGTAAAGCTCATCATGGAAATAATCTATACTAAGCT
TTCAATATTGACATATTTATATAAAAATTTATNGTAATANGATTGAATAAACANTAAGTA
ACTTTTTTTATATTGATAAGNCACCAATNTTATCTTAAAAAGCAATCTTATTATCA
AGTATAAATTCAGTATTTTTTCAGATCCTACAATTCGCCTGGTTNGGTGTATCATTAGNC
TATAATAAATNNNGTGGAATGGCAATTTTACCAAAACAACACACTTGCTTAAACATAAA
GCCAATGTTCTCAGTTTCCAATATATCTCATTTCAATAGCTAACATCAACAAAAATATA
TAT

Sequence 2090

AGGTACAATATAGGCAGACAGTTTGCCTTCAGAAATTCAGAAATGCAGCTTTTGAGGGAG
GTCAACATCATTGGTCTCAGCTACCATTTTCTGCAGGATGTTTATAAATAGTTCCTGGC
AAAGGAGGTTGCCGTATAGGGTCTACAAGTAACCTAGGTGGCAGCATCTCCTCCAGCG
TCAGGTCTAAGCACACAAGTTCTTCTTCCATCTACCCCCGCGTACCTGCCCCG

Sequence 2091

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACGCGGGAGGAAGGATTTAGGACA
GCATCCTAATCAAAGGGCCTGGAAGCACTTTATAAAAGAGAGAGACAAGATCGCATGTC

Table 1

AAACTAGAAGGAAGGAGGTGAGAGGAGATAGGGCTCCAGAGTGGAGCAAGCCCCCTTCTGT
CCCCGTGAACCTTCTGCGGGTGCATGGGTTACCTCTCATTAAATTTAATAGTACCTGCCC
G

Sequence 2092

AGGTACTGTATATAAATACTGAAACAAAACAATGGAAAAAGCAAATAGGAAATAGAGTGA
GAATCAGGGGAAGTGAAGGGAAGCACCAGTTTATCTTCTTTAGATAGTTCTTATTTTGG
AGACAGGATATTTATTTCTTGCGAGCTCTAAGGACTGTGCATTAGCAAGGACCGTTTCAT
TTTTCATCTTCTCTACTAATGTCTTAAGGGAGGGAAAGATAAATCTGAGTGTATCAGGA
TACATATGGAGCTGAGGGCCACAGTTGCTAATTAAGTCCTCTTCAAAGACCCATTGGAT
GCCTCAGCATACGTGATAAAAAAGATTACCCCCAATGATGTCATGTTTTCCAGGCATCA
AAAGAACCCCAAATTACCTTGTTAACAAGAGTGGTTGGAGAAAGCTAAGATACCACTA
CAATCTCCCCCTTACCCTCTGCATAGTGCTGGCTAAGTGGTATGGTCCTGATTTTCTGATA
ATTACTACTTTTAAGGAGATGGTATTTTGTGTCAGTGTCACTGAGGAAACGGGATTCCAA
TCATAACAGCCCCGAACAATTTTAAGTGCTGCAAACCCGACCCAAATANAATCACTTGAA
CCTTGNCNGAAATTGGAATNTACTTTCTTGAACCTCAAGGGGAGAGAAAAAGTAATTTGG
GAACAAACAGTTCCCTTGCCCGGC

Sequence 2093

TTTCAAACCCGCTTATTTACGCGAGGACTCCTCTGCGAAGACAGGAAGGATGGGGTCC
CACACCTGAGCCAGGCGCGGTCCCCACTGGGTGCTCCGAGCCCGGAGTGGCTCCGGACG
ACAGCCCGCTCAGCGGACCTTTGCCAGGCTCGGTGGACCTTCTCCGCTGTTCTCCTCAG
GGCGCAGTCAGGTTTCTTCGACACACACCAACCGAAGTTGAAGCGCGTGTCCCGCGTACC
TCGGCCGNTCTAGAACTAN

Sequence 2094

GGAGCTCCCCGCGGTGGCGGCCGAGGTACATGAACATAAATGCATTTCTAAAGGTGAAA
AANGAATAGGTATTTTCTGTTTAATTAATTTTATAGAGAGTAGTACGTTAATTTT
TTAAACCCCGAAGCTCAGGATCTTATCATTTTAAAGAAATTATCACCAGTTCTGTGTG
AGTAAATAAAGTATTATAACACTTTGTGTTTTTCATCCATGATACCTTGATTTACTTAC
CTGAGCTTTTTTCTAGGGAAAGAAAAATGCTCAGGTAATAACAGAGCCTTGAAAAATT
GGATTTTCAAACACTACCTATTTATGTATAGGCCTTAGATCATCTGATGTTGAATACTCT
TTAAGTGATCTAAAGGCCTACATATAAAAAGGTATTTTATTAAATCTGGAATTAACA
TT

Sequence 2095

AGGAGCTCCACCGCGGNGGCGGCCCGAGGTACTNTTTTTTTTTTTTTTTTTTTGTG
CAATACCAGCTTTACCCGTGCTCTGCACTGCTTAGCCTTGGCTCTGCTGAGTTGTGCA
ACACATTCTGAGAGATGCCATACAATGCTCCAGGCAAACCTATAGAAAAACAGGAATGAG
TGATTTTATACGGGATGTTGTTTCAGCTGTCCAATTCAAAATAAATCACGTCCAGGTGCAT
TCTTTCTAATTTGTGACCCAACTGCTTGCATTTATACATTAATGAATTATTTTAA
AAAGAAATTAGCTCTATCATGAAGACAGTGCTATCTAACCTTTGTGGTCTTCTCCCTT
AAAAA

Sequence 2096

CGACTACTATAGGGGCGAAATTGGAGCTCACCGCGGTGGCGGCCCGTCACGGTGATGTTG
TTGTGCGCGCCGGGCACGCTCAGCGAGCGCACGCCGGCGTAGCCGGCATTGACATTCACG
CTGGTGCGCGCAC TGGCTTGCCAGTTCCAGCCACGTTGGCGCCGATCTGGCGCGTGCGG
TCTTCGCTGCCGAACCTCATGCCGGGCAGCAGGGCGCTGTGATGCCGCTGGCCGTTTGC
GCCGTACGGTCTGA

Sequence 2097

CCGCGGTGGCGGCCCGAGGTACGCGGGTCCCTGAGTTCAGAACATAGGAATTAGATTGAT
AGACATCAACATACCCGCTTTATTGCTGACTCATGACAACTAATGGGAAGACATGGCTCA
GATGTGCAGCCACAGTGAGCTTCTGAACATTTCTTCTCAGACTAAGCTCTTACACACAGT

Table 1

TGCAGTTGAAAGAAAGAATTGCTTGACATGGCCACAGGAGCAGGCAGCTTCTGCAGACA
TGACAGTCAACGCAAACTCATGTCACTGTGGGCAGACACATGTTTGCAAAGAGACTCAGA
GCCAAACAAGCACACTCAATGTGCTTTGCCAAATTTACCCATTAGGTAAATCTTCCTCC
TCCAAGAAGAAAGTGGAGAGAGCATGAGTCCTCACATGGAACTTGAAGTCAGGGAAATG
AAGGCT

Sequence 2098

CCGCGGTGGCGGCCGAGGTACATCTCTAGCTGATGATTCAAAAAGAAACCTTTTAATCT
CACTCCACTGATCAGCTATGATACTTAAATGTTTTAGCTGTGAGCAAAATAATATGCATT
CTCAAAGAGAGTATCTTCAGACTCCAGTGGCCGAGAATCTAGAGTTAGCAATGGAAAAAT
TAGTCTCGGGCTTCTGTTTCTGCCACANTTTTCAAATTAAGAACAAATGTGTTTGCATT
AATGAAACAA

Sequence 2099

CCGGGCAGGTACATGTCAAAGGAAAAACAGTGAAAGATGAATTCAGCCAAACCCACCAG
TGTTCAACCTCAGTCTAATCAATCTCATACTCCTAGAGGCTTAAGTATCAGCAGGTAAGA
TCGTGATGACCTGTCTCTGAGGCTCCAGACAATAATTTCTAACTGCCAACTGGAAATCCT
TATATTGGTTAGGCTGCCAACATCCAGGGAACAGGACCAAAATAAAAAGCATCACTCATT
ATCCTACTGCAATTTTCTCTTCCCTTTGTCAAATGGGAATGATCTTTACGATCATGATC
CTTTATTGCAACCAGGACAGAAATCATGAAGTCATCTATGGCCCCCTTCTCTCACTCCGC
CTCCAATTAGTTGTCTATCTGCCCTTCCGTTCTCCTTCCATCTCCATAATGCCAAGC
TAGTCTATCACCTCTCCATTCTTTCACTCAACCTCCAGAATTATCTTCTAAAACCC
AGACTGATTCTGATTTTCTCTCAAGAAACGCTCTCTAACACTAAAGCACTTTGCTTC
TACCTCTATCGAGCCCAANGGTATTCATCCTTGNAATCTCTCTAAATGAGTTCCAGCTG
NCCACCCACGAGACTAGGAGTTTGGTAAGGACAGAATCACTCATTTTCATCCTTGNACCT

0

Sequence 2100

CACTATAGGGGCGAATTGGAGCTCCCCGCGGTGGCGGGCAGGTACTGTGTGGTTTAAAGA
TAAGCAGCCTGTGCTGTCTTTTATTTTTCAGAAATAACATAAAATAAACAACAATTACTGAA
CGCAATGTGCAATCTCTATCTTCTGTGTTTCGGGGTCAATTGTCTAACAGGAGCCACAGG
AAGAGCTTCAGAGGCACCCAGATGCCAAGCCTCAATTCCTACTGTGACTCTACTCTGGCA
GAGGTGAGACTTCACCTTCCAGAACTATGCTGGGGGCCTCTGTGTCTGTGGCATATTGT
TTATATTGTGTGTTTATAGGCAATTTTAAACAATCACTGTTTCTAGATTGCAACCCTCCTG
AGGCACTGCGCTGACACAGCAAAGTTATTCCCCTTACTGAAGAGAAAAATTAGAGGCCA
AACACCACAGAAGCCCTGATAATATGGAATATTAGCATCAATGTCAGAGCACAGTATTTA
GGACAGATACTGATAAAGACAGCATAGATGACCACCTCACCTTGTACCACCTGAGCGAG
GAGCCCTTAAAGATGGGTTTCC

Sequence 2101

CTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAGGTTCAAATAGT
CAGCAGCTCATCATAATCAATGAGCGAGGACATAAAGTAGGAAAAATGCATCACCATGGT
GAGCAAGGAAAGCAAGTTATTGGAGGCACATGTTAACACATAAAATATAAATTATATGA
TCACACTGGAAAGGCTTGCCTGAGCCCACAGTTTGAATGCCTACAATAAGATGAGATGCA
CAACAAAAAGCAAGAGAACCCTGATCAAGTGGGTGACCTGGCCATGGTGCTCTCATCAGTG
GGGACCCAAATGCTTATGTGGACTCACCAGGTATCGAATTAGACATGAATAGGAGTGTTT
GTTGTGATCCAAGAACTATATAATCAAATGAATACAATGAACTTTAAAA

Sequence 2102

CCGCGGTGGCGGCCGCCCGGGCAGGTACCTACTTACTATTTTATGAGAATTGATTTTAC
TAAGCCTGATTTGAATGGGTTGCATTTACACCAACTGCTATTTATTAATGAAAGTGGTAG
CCTGCTTTTTAAGTAATATGTGTTTGCAACAGGAGAGGGTTTTCTGAGCTTTTAAACC
AGTAACCCCTGAACCTTCTCCAAATCCACACCTTTTATCCCCCTTTCTGTCTCCTT
CTAGGTGCCTCAGTCCTGGCATCTCGGGAGGACTCTGCCATTACTCATCTGTACTGATT

Table 1

CTGAATCTTGTGCTCTAGCTCTACAGCCCAGTGAAGAAGCAATATATCTTTAATTCAGGG
CTTGCCCTCTTGCTTTCCAACCTCTAACCTGAGAGCAGTGCTACTTTTGTAATTGCAGGTCT
AAATAACTTAAGCGTATATACAGAAGCCAATCACTGATCACTTCCATTGCAATGAGGCAT
CTGTTGTCAAAGAAGGAAACCATTGTCAAGTCCCTTATAGATATTGAATCTTCAAACCC
AAATCTGGGGATGTTTACATTTCT

Sequence 2103

GATGGCGGCAAGCGATGCGCCCTCCTCGCACACTGNNCCGGCCAGCATGNNCGTGCGCAG
TTCGGCCAGCACGGCGCGCGCAGGCCAGGGTTTGCACGCGGCCGTANTGTGCAATCAG
CTCAAGGCAAGCCGCGTCGCCCAGGATGCGGTCGACCGACGGCAGGCGCACGGTTTGCCC
CGTCGTCATGCTGGCTGGCCCTCGCCGCTGTCGTTCTTCCCCAGCCACAGCAGCGGATTG
CCGCTGGCGCGCTGGTAGCCCGCTTCGCCACCAACAGGTCGAGCATAAGCTGGCCAGATC
GTCGGCAGCGGTTGACGTTGTAATCGNGTTCCTGGTTGAAGACTTTGCGATAGGTATGG
CAATCGTCGCANGTTTCCGCGCGCGCCACCTTCTTCGGATCATTGCGCTTGTTGGGCAAT
TTGTCGTCTTCGCCGCACGGGGTGAACGGGTTTGCCTNGGCGCTCTAAACTAGTGA
TCCCCGG

Sequence 2104

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGTAGATGGAAG
GAAGAACTTGTGTGCTTAGACCTGACGCTGGGAGGAGATGCTGCCACCTAGGTTACTTGT
AGGACCCTATACGGCAACCTCCTTTGCCAGGAACTATTTATAAACATCCTGCAGGAAAA
GGTAAGCCCTTGTTAAATTTATTGACTTCATTTATGTATCTCACAACTCTTTTCTG
TTTTAGTTCTAGGAATAGAACTTACTTTTGAAATACAGTACCTGCCCG

Sequence 2105

CACCGCGGTGGCGGCCGAGGTACAGGGCTCTTGATATATCCTGGCCTTAAGTCTCAGGTT
CTCCAACAAAGCTGGCAGCCTGTGGTATGCCTTCTGGGGCCAGAGAGTGTGGCATGATCC
GAGGTCTGAGTCTCTCTCAATGAGCCATCATATTGGCTTAACCAAAGCCAGTGGTC
TTCAGGACACGGAAAAGGGAGTCCCTTAGGCTCCAGGTTTTTTTCCCTTCAGTTCACACT
GGGAGAAGGGTCACAGAGCTCCAGTGAAATCTGGTCCTGTTAGATCATTGTGTTGGCT
GCAGATGCACATGTGGGCATGTGATAGTTTGTATTTAGATAAAAAGCCACAACCTGAGTG
GAGTGTTGAAACCTCAGGGTTATAGACTGGTGTATCTGTGAGAAAACCACAACAAGTATG
GTATTTGCCCCGCTACCTGCCCG

Sequence 2106

CCGCGGTGGCGGCCCGCCGGGCAGGTACATGCCAGGCACAACTGGAGTCACAGATGCC
ACACTGACTATCACATTGTCATCATACTCAGAGAGAGAAAAGTGTATACACCCAGTATTT
TCTTATGTTTTCTCTATACTTCCATATCCCCACCCCATTA'CCCCCGAGACATTCCCAG
TTGGAAGTCAGTTGCTTATGGGAACTGGCTGCAGGGGGATCAGCCCACCTGTAACACAC
GGAAAGGCAGAGAAACAATGAGTCATGGATTTGAGTGCA'ACAAGCCCAGTCTGCTACA
GAGAGTTACGGAAAAATCTCACTGTTGAAGAGAGACATCTATAAGAGAGGTGAGGAAAA
TGACTGATAGATCCTTTTACAATATTCTAGGGTAGTCTGTCTGTGGGAGGGGGCAAGGAG
TCTATGGGAACCTCTCTGTACCT

Sequence 2107

CCGCGGTGGCGGCCCGCCGGGCAGGTACCATGGCCA'AGCTGAGGCAGCCAGGGTGGGACA
GGGGCCTCCAAGCAACACAGCAGTGTTAGCAGTTCA'CTGGACCTGTTGATGAGCTGTCT
TAGATGCACGAAGGCAAGAGATGTCATCTCTCTCT'AAAGATCTTAGATCTTAAGTGCAG
AGGGAAGGCAGCTGGGAGTGTGGACGGCAGCCACAAGGGAGAAAAAGTGCAAGAGCATTTA
CAACCAGAAGAGAAGCCGAGGGGACATGATGGCCCATGGACAATGTAGCCATGGACAGTG
CCCTGGGAGGCTGGTAAGGGGGGTGCTGGGACTGGTGGTGAAGAGATCATTTTAAAGAA
AAGAATCCCGCGTACCT

Sequence 2108

CCGCGGTGGCGGCCCGCCGGGCAGGTACATGCCAGGCACAACTGGAGTCACAGATGCC

Table 1

ACACTGACTATCACATTGTCATCATACTCAGAGAGAGAAAGGTGTATACACCCAGTATTT
TCTTATGTTTTCTCTATACTTCCATATCCCCACCCCATTTATCCCCGAGACATTCCCAG
TTGGAAGTCAGTTGCTTATGGGAAACTGGCTGCAGGGGGATCAGCCCACCTGTAACACAC
GGAAAGGCAGAGAAACAATGAGTCATGGATTTGAGTGCAAACAAGCCCAGTCCTGCTACA
GAGAGTTACGGAAAAATCTCACTGTTGAAGAGAGACATCTATAAGAGAGGTGAGGAAAA
TGACTGATAGATCCTTTTACAATATTCTAGGGTAAGTCTGTCTGTGGGAGGGGGCANGAA
GTCTATTGGGAACCTNTTGTCTNGGCCGCTTTTAACTAATGGATCCCCNGGCTTGC
AG

Sequence 2109

TTTTTTTTTTTTTTTTTTTTTGGGGAACAAGGTGAGGTTCTCTGAGGTAACATTCCCTAA
GACAGGAACCCAGGACTTTCCAACCTCTAAGGATTTCCACATTCCAGATCCAGAAGTTT
TCAAAATTACCTCTTAAGTTTTCTACTAAGTTTATGGCCCCAGAGGCTTCTACTCCAGG
TAAGCAGTTCTCTGCAACTCTGAATTTGCTTGATTTCTAGATTTTAAGGTGACAGTTTG
CCCTGTAATATCAGTTCTCTGACGGGTCCAAGACAAGCCATCAATTTTAAGGTTCTTTAA
CTATTTCTTATTGNAAGGGATGGGAATTGGAATGCTAAAGCTCTTTAAAGATTGGGC

Sequence 2110

AGGTACACACAGACCCCTGAAAAGCACCATGGCAGTAAGACCTTCCCCACATGAGTTGGT
AACCTGTAAATTATCTTAGCCTTTCTTATTCAACTTATCAAACCTCCTCAGAACTCCA
CACTATTACTTCCCTTTGGTGACGTGAAGGGTTGGAACCCAGCATCTCCATTCCCGA
TGAGTCATAACTCACACTGCACAAAACGCAGTCCACATACTGA

Sequence 2111

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACNCGGGGGTTTGTAGATG
GAAGGAAGAACTTGTGTGCTTAGACCTGACGCTGGGAGGAGATGCTGCCACCTAGGTTAC
TTGTAGGACCCATACGGCAACCTCCTTTGCCAGGAATTTATAAACATCCTGCAGGA
AAATGGTAAGCTGAGACCAATGATGCTGACCTCCCTCAAAAGCTGCATTTCTGAATTTCT
GAAGGCAAACTGTCTGCCTATATTGTACCTTGCCCNATCAAATTTT

Sequence 2112

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGTGAAGGGCTCTCTGTAT
ACTGCTGAAGATTCTATAGTTTCTCCTGAAATCCATGAGGGAGCCCCCTGAAGGATTTTG
GCCAGGAAAGTGTCAATCAAAATTTCTATTTAAGAATAGTATCGAGGCAGCAATGTC
AAAGTTTGTTAGAAAATAGGATGGTTCTGTAAATCCAGAACTTTTGGAGACCAAGGCG
GGAGGATTGCTTGAGTCCAGGAATTTGAGTCCAGCCTGGGCAACATGGGAGAGGACCTCA
TCTNTNCTAAAATTTNANTNNTNTAATAAAAGGTTCCCT

Sequence 2113

CCACTCCAAGTAAATTTGCATTGGCTTATTGAAAGTCAATCACAAGTCAAAACACAGAC
TCACATAGGAGAACACTGTTGTTTGGGCCAGCAGCTCTGAAATCAATACCTTTAATGGT
AGAACCTAAACTAAATAAATAGGAAGGAAGGAAGGAGAAAGAAAGAGAANGAAG
AAAGAAAGAGAAAGGAGAGAGTGAANNANAAAAATGAAAAATAAGTACCT

Sequence 2114

GGCTAGGCAGCTCTGGAGAAAGCAGAAGTGGATAAATAAGGTGTGGACTCACCAAAGACA
GTTCCAAAGTCAATTTCACTCTGACACACTCTCTGTGATCTTCCACAGTCAGCACAATGC
CTGCCCCCTGCTAGGCCTGATGGATGATCTGATAGAAAAGTGGCTTCAGCAAGGAGCTTC
CACAGGTAACCTTGGTTCTGCAGTGATAACAGCTCCTATGAAGGAGACCCCATCAGACTA
ACAGTGGATTTCTCAGCAGAAATCATAAAGGCCAGAAAACAGTGAATGGCATTTTCAAA
ATGCTCTTTCCATTGCTTTTCCATACCACTGCTTT

Sequence 2115

TAGGGCGAATTGGAGCTCCCCGCGGTGGCAGCGGCCCGCCGGGCAGGTACCAAAGAAT
GTTCATAGCAGCATTATTTGTCATAGTCAAGAGCTGGAAGCAACCCAGTTGTGCATCAAT
GGTAGAATGGATGACTAAATTGTAGTGCAATCTTACAATAAAATACTATAGAGCAATGAA

Table 1

AATAAATAAACTATGGCTATATGCAACAACATGGATAAATCTTACCAACAATGTTAGACA
AATGTAGCCAAACCAAAAAATACACATGTTCTATGAATCCATATATGCAAGGTTCACAAT
AGGTGATAGTAGCTACTCTTTTGGGAAGGAGTGAGGAAAGGACTGCCAGAGTATTGCAGA
GGGGGCTCCGGGTGTTTGAATTTCTATTTCCCAAGTGCANGTGTGGTTTGCATGAACATG
TTCTTTGNGGAAATTCATTGNNGCTGTACCTAAATATA

Sequence 2116

CCGGGCAGGTACGCGGGGGTAGAACAGGCGATATCTTCACCATGCGCACAATGAAATCAA
TACTCAGAGAAGGCAGATAATTCTCCACGAAGCCAGAAAACCTAATAAATGAACAACCTTGG
GTGAAATGTCCACCAGACGGTGTGATATTTAGTAGTCCAGAAAGCTGCCAAGGGGTTGA
ATGACACTATCTGAAGATATGAACCAGTTTGTCTCCATAGGGAGGATTTTCATCAACAGG
AAACAGATGCCTGGAAGGCATTGGATTGCTAAGTGTCTATGCCATATGATTCTGCTGTT
TGCGTTTGATTTAAAT

Sequence 2117

CCGCGGTGGCGGCCGCCCGGGCAGGTACAAATTTGGGCATAGTCAGAACTCTGCTGACT
CTCTCTTCCCATTTAACCTAATCTTACCATAGCACTCCTCACCTATGACTTGCCCATTTG
CAGTAAACCAGAAAGCAAAAAAGGTCAAGCACGTGTGTTTGAGATCCAACCTAGTGTT
TGTAGCAGCTCTGCAGAACACAGTTTGCACATCTGTAAATTGAGCAATAACAACCTGCC
TGCCTGTTTCACAGGGTTGCTTAAAGAGTTATATGAGCTATTGCATGTGAAAGTGTTC
TAAGCTGCCATTTGCTCTGAAGCTCACGGGTATAATTATTCTAGTCTAACCTACTTATGT
TTGCCCTCTTTCTGCAGTTGCATCTTTGTGCATAAAGATTCTCTCTCAACCTGTGCAA
TTGATTCATCTTTAAAGACCAACTCAAATTCGACCTTCTAAAAGAAAATCTTCTCTGACC
TTCAACTCTAACTAGAGTAATTTACTAAGTGGTATTTATCACTTTCAAATCTTCATTA
GGTCTTGAATCATAGAATATTGGTTACCCATTG

Sequence 2118

CGACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCGCG
GTTTTTAAATCTGTCACTGTTCTTCCCCCACTTCAAAGCTGACTTGACAACCTGCATTTAT
TTCACATTGCAATTGCTGCAGGTTAATAATATTGTTTTATCAGGAAACATTTATCTTGAG
GAAGAAAGTTATCCTAATACAGCAGATAACTTATCCAAGGACAGATAGAAAGGGGACTGT
GTCTAGAGGGTAATGCTAATGCCTGGCATGCTATAAAAAATAAATGAAATCTGATTAACAC
TATTGGAGGGGAAGAATAAGTCATCGTTTCTATGAAATATTATTTCTGATTGGAACCA
TTTCCATTTTCGCAGCTTAAACATTGCATTAAAGATGAGATGACTTTAAACCCGGGGA
CAGCTATCTCAAGCCCTGTGGATTATNAATGGGGTATAGGCTTGTAATCCTATGGGTTTA
GACTAAAGTATTTCTTCATAAATTGAAAAGAAAACNCACCTTGGAATTCAGAAGATTTTA
ATTAAAGGTGGTCAAAAAATTTAATGGGGGAATTTNAANGGCTGACTCCCTAAGTAGTTT
TGGTTAATGATTTAATTTATAGAAGAAAGGTCTTNGGCNAATTTGGTATGCCCAAAGAG
CCTACTATGNCCCAANNNTTTTCTNNGGAGCNTTATTATTAAGNGGCCCGCTTTTCCNGG
TGGCNTCCCTNAGTCATTTCTGCTTCATCCAAATTTGTGGAATTAANCCTACCCNTTTA
AATGGGGACCATTGGCTTTTTAAGGGGNNAAGACCCCAAAGGTANATANCCTGGCNTTA
TGATAANTATTTTTTTT

Sequence 2119

GGGCGAATTGGAGCTCCCCNTGGTGGCGGCCGCCCGGGCAGGTACCAAAAGAAATGTTTAT
AGCAGCATTATTTGTCATAGTCAAGAGCTGNAAGCAACCCAGTTGTGCATCAATGGTAGA
ATGGATGACTAAATTGTAGTGATTCTTACAATAAAATCTATAGAGCAATGAAAATAAAT
AACTATGGCTATATGCAACAACATGGATAAATCTTACCAACAATGTTAGACAAATGTAG
CCAAACCAAAAAATACACATGTTCTATGAATCCATATATGCAAGGTTCACAATAGGTGAT
AGTAGCTACTCTTTTGGGAAGGAGTGAGGAAAGGACTGAGAGAGTATTGCAGAGGGGGCT
CCGGGTGTTTGAATTTCTATTTCCCAAGTGCAGGTGTGGTTTGCATGAGCATGTTCACTT
TGTGGAATTCATTGAGCTGTAATAAATATACAGAATTTTATGAATGAAATGATATA
TAATTCATGGGAACCTGGGAGGATAGGGAGGAGGTGGGGGANCTNAAAAACATGAGT

Table 1

GGCCCCGAATGCTTAACAATTGGTATTGTTAGGTTATGGGATCCCGGGGGGTGGTTGTCTT

0

Sequence 2120

AGGGCGAATTGGAGCTCCACCCGCGNGTGGCGGCCGGGGGCCATTGAGACTGCCATGGAAG
ACTTGAAAGGTCACGTAGCTGATACTTCTGGAGAGACCATTCAAGGCTTCTGGCTCTTGA
CAAAGATAGACCACTGGAACAATGAGAAGGAGAGAATTCTACTGGTCACAGACAAGACTC
TCTTGATCTGCAAATACGACTTCATCATGCTGAGTTGTGTGCAGCTGCAGCGGATTCCCTC
TGAGCGCTGTCTATCGCATCTGCCTGGGCAAGTTCACCTCCCTGGGATGTCCCTGGACA
AGATTTTACTCCCATAACCCAGGCAGAAGTACCT

Sequence 2121

CGAGGTACTTCATACTACTTTAAGTTACCTCCTATTGGGGGCATTATAAATGGGTAAGCA
GAGAACATCATGAAAAGACATGGAGCTTAGTATATGCAAATGTTGAGTTACTCAGTGTA
TGTGTGAAAAAGGAGTTTCATAAGTTTCGGTCAGGGAAGAAGGCAGGGTCAAAATTTCTG
CTTGAGAGTTTGGGAGCTTGGGGAGACTTTAAACAGGGAGCAACACAGCGCCTCTGTACC
TGCCCG

Sequence 2122

CGCCCGGGCAGGTACTAAACTATTCCAGGAAGACTTTAACTTTTGTGATTCAAAAGGA
ACATGGTGCATCATTTAGCACCGTAGGGTCATCGTTATGATAATCCATTTTATTACAGT
CCTGTGGTTCTCATCTACCCTAATATCCAGCAAGTGGTTCATTGCAGATTCTGATTTATT
CCATCCTACCTCAACCCTATTACCAACTATCACCAACCACCCGCCACCCAACTGGA
AGACAACCANAGATAAATCCTCAAGAA

Sequence 2123

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACCTGTCCATGTGATGAAT
TAGAACATGCTTTTCCACCTATAAACTACAACCTTAATTTGCATAACTTAATATAAGTAGT
ATTAATGTAAGTGTATACATATTTAGGTTATAATTTTATTACAATTTGAAGACATAA
ATACAATTGGTTTAGTTATAAAATTACACTACTTACTTGCTACTTTATACTGCTCACTA
CCTCCTTAGTGGAACCCAGATTTTCTCTATGATTTGAGAAAAATTACTCCACATGTTGCC
TAGTTATCAAATATATTGGGAAGCAGAAAAAGCTATGAAAGGCTTCAAAGCTTCTGAGA
ACCTTAGCACGAAAACTTCCAAAAAGCTTTTTTCACTTTTCAATAGTTCCTCTTAC
ATCACATTTATAATCACTCACCAGCAATCTCTTTCCATGCTTGATTTGTGAGGCTTATT
GAAAACAATGGCATTGACCGTTCATTCTGACTCCTTGATTTC

Sequence 2124

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTAAACTATT
CAGGAAGACTTTAACTTTTGTGATTCAAAAGGAACATGGTGCATCATTTAGCACCGTAG
GGTCATCGTTATGATAATCCATTTTATTACAGTCTGTGGTTCTCATCTACCCTAATAT
CCAGCAAGTGGTTCATTGCAGATTCTGATTTATCCATCCTACCTCAACCCTATTACCAA
CTATCACCAACCACCCGCCACCCAACTGGAAGACAACCAGAGATAAATCCTCAAGA
AACTTCTTTTTAAGAGGGTGGTTAACAAAGTTAAATTGGGTAGAAAACAGATGAAGCAAG
TTTTAATCTCTTTGCTGAGTAAGAATAGTGCCTACATGGTGTGGGTGATCATGTGTAAGA
CTCTGATGGGCAAACCTGGGGCCATTAGGAG

Sequence 2125

AGGGCGAATTGGAGTTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGAATGAGAGC
CTACAGTTGAAAGCACACTTGGATGAGGCTCGGACCCTGCTTCATGGCACCAGAGGAACC
CACCAGCACCAGGTTGAGCTTATTGAGCGAGATGAGGTTAGTCTTCATAAGAAGCTGAGG
ACTGAAGTAATTCAGCTAGAAGATACATTGGCCCAGGTCCGCAAGGAGTATGAAATGCTG
AGGATAGAATTTGAGCAGACCCTTGCTGCCAATGAACAAGCAGGCCCTATAAACAGGGAG
ATGCGCCACCTCATCAGTAGCCTCCAGAATCACAATCACCAGCTGAAA

Sequence 2126

CCGGGCAGGTACGCGGGAATGAGAGCCTACAGTTGAAAGCACACTTGGATGAGGCTCGGA

Table 1

CCCTGCTTCATGGCACCAGAGGAACCCACCAGCACCAGGTTGAGCTTATTGAGCGAGATG
AGGTTAGTCTTCATAAGAAGCTGAGGACTGAAGTAATTCAGCTAGAAGATACATTGGCCC
AGGTNCGCAAGGAGTATGAAATGCTGAGGATAGAATTTGAGCAGACCCTTGCTGCCAATG
AACAAAGCAGGCCCTATAAACAGGGAGATGCGCCACCTCATCAGTAGCCTNCAGAATCACA
ATCACCANCTGAAAGGGGAGGTCCTGAGATATAAGCGGAAATTGAGAGAAGCCCANTCTG
ACCTGAACAAGNACACGCCTGCGTTANT

Sequence 2127

GCCCCGCGTGACGAGCGGACTTGCGTCCGGCGTATCGGCGATTTGCGGGTTCTCGTTTACG
CAGGGAAAACAGGCGTTCCATGTGCGCCAGGCTTTGCTTGATTTGCGGGTAAATGACGCC
CAGGAAATTGAGAGGGATGTACAGCTGGATCATGAAGGCGTTTACCAGCACCAGGTGCGC
CAGGGTCATGCTGCCGTTGATCACGCCACGGTGGCGCGCCACAGGATCAA

Sequence 2128

GGGGCCATTGAGACTGCCATGGAAGACTTGAAAGGTCACGTAGCTGAGACTTCTGGAGAG
ACCATTCAAGGCTTCTGGCTCTTGACAAAGATAGACCACTGGAACAATGAGAAGGAGAGA
ATTCTACTGGTCACAGACAAGACTCTCTTGATCTGCAAATACGACTTCATCATGCTGAGT
TGTGTGCAGCTGCAGCGGATTCCTCTGAGCGCTGTCTATCGCATCTGCCTGGGCAAGTTC
ACCTTCCCTGGGATGTCCCTGGACAAGAGACAAGGAGAAGGCCTTAGGATCTACTGGGGG
AGTCCGGAGGAGCAGTCTCTTCTGTCCGCTGGAACCCATGGTC

Sequence 2129

CCGGGCAGGTACGAGATGCCACGGCACGAAGTCTACGTTCTCCTGATCCGAAACATCTTT
TTGAAATATCAATCATTGGCATTCTTTGTTACTATTGGCTCAACACCGTGGCCCTGTCT
GGTGAAGAGTGTGGGAAACCCTCATTGGCCAGGACATCTACCGGCTCCTTCTGATGGAT
TTTGTGTTCTCTTTAGTCAATTCTTCTGCGGGGAGTTTTTGAGGAGAATCATTGGGATG
CAACTGATCACAAGTCTTGGCCTTCAGGAGTTTGACATTGCCAGGAACGTTCTAGAAGT
ATTTATGCACAACTCTGGTGTNGGATTGGCATCTTCTTCTGCC

Sequence 2130

AGGTACAAGGACTGCATCGAGTCCACTGGAGACTATTTTCTTCTCTGTGACGCCGAGGGG
CCATGGGGCATCATTCTGGAGTCCCTGGCCATACTTGGCATCGTGGTCACAATTCTGCTA
CTCTTAGCATTTCTTCTCCTCATGCGAAAGATCCAAGACTGCAGCCAGTGGAATGTCTC
CCCACCCAGCTCCTCTTCTCCTGAGTGTCTGCGGGCTCTTGGACTCGCTTTGCCCTC
ATCATCGAGCTCAATCAACAACTGCCCCGTACCTGCCCC

Sequence 2131

ACACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCGTTCCTCCAGT
GCCCAGAGATGCTCTCCGCACCAAGCCACAGATGTGGAGGAGGCAGGTAGGGGGTCAAAG
AGGGGTGGTATCGGTTATTNAGGACTTTTTTTTTTTCTTAAATATCCTGTGCTTCTTTCA
ATCATTTGAAGGTAAAAACCAGCNTCCCTGTGAGTGGTAANCTGATTTTAGGTTNTTAT
GAAGGTATTATTTTCTGNGTAGATAGTNGTTAACTTGGTGTCTTGCANGGTAAGACGAT
CAGCGAAGCTTTCTGTTCCACCATCTTGCTCCTCTCATTTTANACCTAATA

Sequence 2132

CCGCGGTGGCGGCCCGCCCGGGCAGGTACCAAGAACAACGGAAGCCTAAAGATGGACC
ACAAACCTTTGGATATCCAGGATAACTGAGTTAAAAACCTACCACACGGTTAATAAAATA
ATGATGTCCACTGAGTCCATGACCACAAAACAAATCACCAGCAGCAGGATGGCATGGGCG
GCCCTTTTCGCTGGGGAGGGACTGGAGCAGAGGCTGGGGCTGTGAAGGTGATGGGATCAC
CTCTGATGGTTAAACAAGAGTACCT

Sequence 2133

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCTCGGTTGCAAGCACAAGC
AAATGTGCCAGGGTGGTTGATGCAGCTGTGGTCACAGGTCCTATCCAAAGAGCACTCATC
CACATCTTGGCAAGACTTCTCATCTGTTAATAATTTAAATCCTTTCTTGACGCCCGCAGT
CAAACTGCCCACCGATGTTTTGCAGAAATGATCACAACTCCATTGCGGGTCCCCGCG

Table 1

TACCTGCCCG

Sequence 2134

GGTACGCGGGGACCCGCAATGGAGGTTGTGATCATTTCTGCAAAAACATCGTGGGCAGTT
TTGACTGCGGCTGCAAGAAAGGATTTAAATTATTAACAGATGAGAAGTCTTGCCAAGATG
TGGATGAGTGCTCTTTGGATAGGACCTGTGACCACAGCTGCATCAACCACCCTGGCACAT
TTGCTTGTGCTTGCAACCGAGGGTACCT

Sequence 2135

CCGCGGTGGCGGCCGAGGTACGCGGGATGGAAAAATCACACTTCACAAGAGATCCATCCC
AGCTTAAAGGTGTCTTGTTCGAGCATCACTGAAAAAAGCACAATGGGATTTGGTTTTA
CTATTATTGGTGGAGATAGACCTGATGAGTTCCTACAAGTGAAAAATGTGCTGAAAGATG
GTCCCGCAGCTCAGGATGGGAAAATTGCACCAGGCGATGTTATTGTAGACATCAATGGCA
ACTGTGTCTCTCGGTACACTCATGCAGATGTTGTCCAAGATGTTTCAATTGGTACCTGCC
CGGCGCGCCGCTCTAGAACTAGTTGGATCC

Sequence 2136

CCGCGGTGGCGGCCGCGGGGCCATTGAGACTGCCATGGAAGACTTGAAAGGTCACGTAGCT
GAGACTTCTGGAGAGACCATTCAAGGCTTCTGGCTCTTGACAAAGATAGACCACTGGAAC
AATGAGAAGGAGAGAATTCTACTGGTCACAGACAAGACTCTCTTGATCTGCAAATACGAC
TTCATCATGCTGAGTTGTGTGCAGCTGCAGCGGATTCTCTGAGCGCTGTCTATCGCATC
TGCTTGGGCAAGTTACCTTCCCTGGGATGTCCCTGGACAAGAGACAAGGAGAAGGCCTT
AGGATCTACTGGGGAGTCCGGAGGAGCAGTCTCTTGTCCCGCTGGAACCCATGGTCC
ACTGAAGTTCCTTATGCTACTTTTAC

Sequence 2137

CCGCGGTGGCGGCCGCGCGGGCAGGTACCAAGCAGAGGAGTTCACTCTTCTTCCCTGTTT
TGAATGCAGCCATTTTCAAGGTCAAAGTCAAAGAAACCCTTCAGTTCCTGCACATGGGTGA
GATCATAGACGGTGTAGACATGAGAGCTGAGGTTGGAATTCTTACCCGGAATATTGTGAT
CCAAGGAGAAGTGGAGGACTCATGCTACGCAGAAAAATCAGTGCCAATTTTTTATTATGA
TACCTTTGGGGGACACATTATGATAATGAAAAATTTACTTCAGTCCATCTTTCTTATGT
GGAATTGAAACACATGGGTGAGNAGCAGATGGGGCGATACCCTGTTTCATTTTACCTGT
GTGGGGGGACCTTGGGATTATAAAGGGAGG

Sequence 2138

CCGCGGTGGCGGCCGAGGTACAACAGGCTTGTAGTTCCTTGTGAAGGATGCAGGCAAGAG
GGATGTCCAGTTTAGACGGGGCCCTGACAGCAGCAGCCTCTTCCACATCAAGTGAAGTGTG
ATTGTTAACGATCATTGCCTGCACAAAGTATAGTTGCCTTTGAAGTAGTCCACCCAATAC
TTCACCATGACATAGCGGGGCAGGATTGGGGTGTTCACATTTTCTGTATAAGATGGTGTG
TTAAATCTAAAGCTTGAAGAACTGGATAAATTAAGCTTGTAGTTTGTAGCTTATTTTTT
AGGCTGGCATCTTGAGTAACTGTTGTCCAAGGGCAGCAGCTAGATTTCCACCAGCACTG
TCACCAGAAATGCAAATTCTGCCTGGATCAACCATATACTTCTGTAAGACTTCTGGCTTC
AGGAAATACTTTGTGGCCCCGTC

Sequence 2139

ATAGGGCGAATTGNTNCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGACAGGCCATCTC
GCTATAGGAAAGGAAAGTGGAAACAGCATTCACTCTCAACAATTTTACGAAGACAAAATGA
AGACTGGAGTAGAAGACTGATCAGTGCAGGTGTAGCATAAAAGTGAATCCTGGAAGATG
TGGTGTGAGAAGCATCATCAGCATCATGCTATTACAATCCCAAACCATGGGGGTTTCTCA
CAGCTTTACACCAAAGGGCATCACTATCCCTCAAAGAGAGAAACCTGGACACATGTACCT
GCCCC

Sequence 2140

GTAATTTAATCTTCACATCACTTTTACTTAGACCTTGATGAATGCTCCCACTCCCCGAAA
CCATGCAACTACATCTGCAAGAACACTGAGGGGAGTTATCAGTGTTTCATGTCCGAGGGGG
TATGTCCTGCAAGAGGATGGAAAGACATGCAAAGGTGAGTGAAGAGTCTCTGACAATCGT

Table 1

GACCCTAGTCTGTATCTTTCTTTCAAATTTAAATATTAGATTATCAGGAATTATGCCAT
GTGCATCACCTTCATTAAGGTCCCATCCTAGTGGCCATGTTATTGCTCATAAGAAAA
CTCTACCAATATGCTCATTGCAGGAAGCAGAGAGGATTAAAC

Sequence 2141

GTAATTTAATCTTCACATCACTTTTACTTAGACCTTGATGAATGCTCCCAGTCCCCGAAA
CCATGCAACTACATCTGCAAGAACTGAGGGGAGTTATCAGTGTTATGTCGAGGGGG
TATGTCCTGCAAGAGGATGGAAAGACATGCAAGGTGAGTGAAGAGTCTCTGACAATCGT
GACCCTAGTCTGTATCTTTCTTTCAAATTTAAATATTAGATTATCAGGAATTATGCCAT
GTGCATCACCTTCATTAAGGTCCCATCCTAGTGGCCATGTTATTGCTCATAAGAAAA
TCTACCAATATGCTCATTGCAGGAAGCAGAGAGGATTAAACCCCAAGTTAAACAGTTTG
CTTTCTTATAGAAACTGCCATAAATTT

Sequence 2142

TATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTAAGTCAAGGACGTCTTTAA
CGTCATGGACGGCTCCTAGGACAGCCACAGAAAAAATGGGGTAAAGGGGTAGGAAGAAA
AAAGGAAGGGAAAGAGAGCCAGGGAATTGGGGAAGGAGAGGTAGGGGAAG

Sequence 2143

AATTGGAGCTCCCCGCGGTGGCGGCCGAGGTAAGTCAAGGACGTCTTTAA
ATGTATTTTAGTTCTTCAGTCCCTGGGAAGGAGACAGGAGAAGGTGGGAGGGAGGAAGGG
GCCAGCTGAAATGGAAACAGATCCCTGATCCGGGGCGGTGAGTGAACCCCTTTCTGGTG
TGCCGAGAGCCTGTGTATTTAGAGGCAGCAAAAAAGTAAAAAAAAAAAAAATTGATCT
TTGTTTAGATTAACAGACCCCTGACTATGAAGAAGGAAGGCATCCATACCAGAAACCGAN
AAATGTCTAGCAAAATCCAAAAAGTGCAAAAAAGTGATGACTCACTGGAGGACTCCCCA
AGAACAGCTCGTTTTAACCCGGCCGCTCTAAGAACTAGTGGATCCCCCGGGC

Sequence 2144

CGAATTGTTCTCCACCGCGGCGGCGGCCCGCCGGGCAGGTAAGTCAAGGACGTCTTTAA
TGCTGCCCTNAACCCTCCCCAGCTGCCTTCCCTACTTTGGGAGCCTCTATTTCTAGAAC
AGGAAAACGCTAGGCTAAATATATGTCTAATGGTCTCTCCATCGGTGTGAAGGGAAAN
NAAAAATGGGCCCAATGTTGTTGCAAGGAATTAAGGGAAGGTCCNTGCCCTGCCACCCAG
TGGGGNTTAGGAAATCCATCTTTTACCGGGNCTCCAGTAGTAAGCCTGGTTGAACANGGG
TTCCAGGACCATCAAGACAAATTCCTGGTTTTCCCTGGAGGGAGGCNTTGNNGGGGGG
GCTCAAATATTGGNGGGGAATGAATNCTTGGGGTTCCCTTAGGACAAAAAGGGAGGCCCC
NCCTAAACCTTGAATGGGGGGGGNGGTNCACNTGGNGNATTANGCCAAGGGGGGGGGG
CCCAATGGGGCTTGAACCTATTTTTTGNNTCCCTNNGGGGA

Sequence 2145

GCGGCCGCTCCGGGCAGGTACGCGGGGATACTTGGGTTGACCCTAACCAAGGATTGCAAAT
TGGATGCTATCAAGGTATTCTGNAATATGGAACTGGGGAAACATGCATAAGTGCCAATC
CTTTGAATGTTCCACGGAAACACTGGTGNGACAGATTTCTAAGTGCTGAAGAAAGAAAA
CAACGTTTTTGGGTTTTGGGAGNAGTCCATTGNNATTGGGTGGGTTTTTTTCANGTTTT
AGNCTTACCGNGCCAAATTCCTGTAACTTTNCTGNAATNCATNGTNCTNTGGAATTG
TTGCTANNCTTGGGNCAATTTTNTNTTCGGAACNTNCTNCTNCCANGCTCNGNAGAC
NTTTNTCNNNAAGGAAANCCAATTNTACCAATTANTTCNAACCTTGGCCAAAAA
TTATGGTCAATTTTNGCCATTAAACCAATTNGGGNAATTCANNGGGGCTCCAAGTTGG
GGGAAAAAATTGGTTTANANAAGAAAAAGGGGCCACNCTTGGGAAAGGCCTTTGGAATTG
GGGGGGGNTTACAAAAAATGGTAAAAGNGGGTNGNAAAAATTTNNAACAGGGGGCNTTN
NAAAGGGGGAA

Sequence 2146

AGGTACGCGGGAAGCACATATTTGGTAGCCTTTGCATAACAAGATGTGAAATTTGTTCTC
AAGCACAAAGTAGCACAGAAGAGGGAGGATGCTGTTTCCAAAGAAGTGAAGTCAAGAACTT
TCTGAAGCTGATAATAGAAAGGATGTCCTCGGTAAGGGGAGAAAGATTGAAAAGNAATCC

Table 1

TTGTTGTNAAGAAAGAAATGAAAGTTGCTTGATTATNGAAGCTACAAACATTTTCCATC
TTNCTATAAACAANCACTCTTGTTTCCCTGGGTCCGATGGGCTCATNTGATTGCTTTCC
TTCTTTCAATTANTGNAAGGAACCTTTNAACTCCCACAAGTTNNAACCTAACANNATT
GGTTCCATTAAAGGTNGNCTTTTCAATTCCAGGGGAACCTTCAATNCGGNCCCCCTCCCT
NGATNCTAACNTTGGGGCCTTCCCCAAAAANTTAGGTAACCTCAATTGGTTCAAGANCTTT
TCNACCCCCCCCCCTNGNGCCTNTTTTGATTGGTCCTAATTGGGG

Sequence 2147

AGGTACAGAGGCGCTGTCTTGGCTCACTGCAACCTNTCCCTACCAGCTTCAAGTGGCCCT
CTCATCTCAGCCTCCCAAGTAGATTGGGATTACAGACACGTGCCATTATGACACGGCTAA
TTTTTGATTTTTGTAGAGACCGGTGGTTTTAATACATGTTGACCCAATGCTGGGTTCT
GAGNCCACACATNATGCCCGGCCCTTGATAGTCCTTATTTCTATTCAAAGTCTTTCTTG
GGNGTATTNGCCNTTTTTNTCTTTAATTAAAAAAAANAACTTTTCCAAGGTTTTG
GAAGNGTGCCTTCNCANAAAAAANGGTNGNAAATTTACCGAANAATAAGNTTACANTTAAT
TTTTTAAAAAAATTTTTAATTAATTTCTTAATTAANTGGCAAGGGTAAAAANAATTTAA
TTAAANANGTGNNCTTTGNTNTTNGGGGAAAAGGAAATNTCCCTCGGTTNATTTTTGGG
CCAAAAAATTAATTTNTTNCCTTGGCCTNAATTAANTNTNGGTTATNGGGGTTGGNC
CTTTNNGTAAAAAATTTTTATTACCNCCAATTAATATANAATAAATTAACCCCTTTCT
TTTTTTGGGAACCTTANAANAAGNGGAACCNNTTGGTTTTT

Sequence 2148

CGGCAGGTACCACACACACAGGCACACACAGGCACACGCAGGCACACACGCAGACACA
CACACATAAACACACAGAGTTCACTAGTCCGAGTTACTGATTTTCTTAGGATTCTCAAAG
TGACAACACCGGAAACAAGGTAATTCATGTTAAACACAAGGGTTATATCAGTAAGAGAT
GGGATCCCCGAAGTAAACCGTGGAATTTGAATCAAGCTTCGAAGAGCTAAAAAAGAAAT
TGGAGTTTCAACATTCACCTTCTTGAATCCTTAAGAAATACAGAAGTTCAAAATAGAAAA
CATTACAGTTTCAGGATACAAAAGTAGAAACATCTGAGATTA

Sequence 2149

CGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTGAACCAAATCATAGATTT
AGAGTTGGAAGTGACCTTTGTGATCATTATTTCAATCCTTTCAGAGAATTCCTCTGCAG
GAATATCTATGTAGGACTTGGATTTGACCCAAGCACATACAATGTCTCAGAGGGCTCTCT
GCTCCTGGCCAAGAGCATCAGGTCTTGTTTTTAATATAATCAGTGTGTAAATTATGGCA
CAGAGAACAGGCTCATTACAGCTGTGGAATGAACTGAGTTAAATGGACTTGTAACATCCC
TAAATGAAAGAATTAAAAAGTCAAATGAGGAATTATATAGCCGTCCCTTGG

Sequence 2150

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTCACAACACCACTGTAAGTCTTTGC
CATTCCCTTGTTCTTAAAAACATTGCTGTTTCTTTAATGCATGGAAATCTAAATCATA
CAGATTGGGAATTTAAATAGTAAATAGGGGAAATAATTTTTTTTTTTTTTTTGANACA
GTCTTGCTCTGTCAACCAGGCTGGAGTGCAGTGGCNCAATCTCGGCTCACTGTAACCTNT
GCCTCCTGGGTTCAAGTGATTCTCCTGCCTNAGCCTCCCGAGTAGCTGGGATTACAGGCG
TGTGCCACCAGGCTGGCTAATTT

Sequence 2151

AGGTACTTTTTTTTTTTTTTTTTTTTTTTTANAAATTGCCTCANACAGGGATTGA
TGTCAGGAGGCTTCAAGGAGAGAAATATACATGAATGGGAGACCCAGGTTGCAGGCAAC
AAGAGTCACAGGTATGGGAGAAACCAGGAAGTCTGTGCCATGTAACTTTGCTCATCTCA
TCGTGCTTTGTACCTGCCCGGA

Sequence 2152

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGGCCCGGGCAGGTACGCGGGCG
GTCCCAGATTTGGTGGGACTCTCCTCTGGTATCAGTTTTCAACGCCACTTCTTGTTTGA
GTCATTCCCAGTGCAGTCATGGACTCTATGAACAAATACGGTTATTTAAATGATTTGTC
CAGTATGAGAATCAGAATGAACTAGTAGAGGCTTACAGATCAGTTGGTCTGACCCATTT

Table 1

TACAGATGAGGAAACAGGCCTGAGAAGATGGAGGGAGTTACCCACAATCTGAAGGGGCTC
TACCATGACTAGACCCAGGTCACCTGCCTCCCAGGCCTGGCTCTTTCCACTCCGAGGTGC
TGGCTCACCACAGACTTATTCTTTAATGGAATTTTGAAAGGCCTCACTCCAGTGGACTC
TTTGGGATCT

Sequence 2153

CTNCTTAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGT
ACTAAGGCAGCAGAGTAGAAAAGATGAAGTGCAAGGACCTGGAAATCAGACACACCTGGGT
TCCTGGTAAGCTTCACTGCTTCTGGTCTCTGATATCAGCTCTGCCCAAATTTAGCTGT
CACAGAATGAGTGATCCTCATAGTATAATGGAAATGCATCATCTCAGTTTCCCCATGGCC
TGAATATCCATACAAAATGAGAGCCCGGTAGAGAAAAACAGAGGACGTGAGGAGTTTTTA
AAAATTGAGGAAAAAGTGGGAAGGGAAAAAGTAAGGGATGAAAGGTGAAAGGATGAAAGG
GAATATGTTTCAAGGAGATGCCTAGGCACTTGGCATCCCCACCCACACAG

Sequence 2154

ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTAGAA
AAATGGTTATTTCTAAGCCTCAGTGAAACGTGTCCAATGAAAGAAAAGCCTGAATTACCA
ACATGGGTAGCATCACTCACACGCAGGCAGAGATAACAGCAAGTGTCATTTAAGACTTT
TCTAAACTTCATGCCTTAAGGAGTAAAGATCCAGTTCATATAGGGTTAGCAACTGCCTT
CAGCGAAGAGGAAAACAGTAAATAATTAACAAAAAGATCAAGTCAGGAGATAAGGCCTAA
GAGAGACAGGACTGAAAAGGTTAGAGGGAGGATAGGTGAGGGCTTGGGAGACCTTGGAAA
AAACAGNAGGGAGCCGGTGGAAGAATTAAGGTGGGGAGGACAAAACGGGCACAC

Sequence 2155

CCGCGGTGGCGGCCGCCCGGGCAGGTACCGCGGGGGAGATGCTGCCACCTAGGTACTTG
TAGGACCCTATACGGCAACCTCCTTTGCCAGGAATTTATAAAACATCCTGCAGGAAAA
TGAGTCAAGGAAGCTTTTCTTTGAGCTATTTACAGCTTTTAGCAATTGAGTAAAGTATA
CTCCTGTGAACAAAATTTGGAACATATTTGTTTCTCTCTAACTGATTTCTCCAGAATTTG
GAACTAAGTTGTAGCTGAGACCAATGATGCTGGACCTCCCTCAAAAGCTGCATTTTCTGG
AATTTCTGGAAGGGCAAACTGTCTGCCCTATTATTTGTACCCTCGGCCCGCTCTAAGAA
CTAGGTGGGGATCCCCCGGG

Sequence 2156

CCGCGGTGGCGGCCGCCCGGGCAGGACGACCAGTGTGAATGAATGGAGCAACCAAGAGGT
TAGGCAGTAGGAGATGAGGCCAGAGAAGAAAGAGGGTGTGGTAGCCCCCTAATGCTGGCA
CTTACTTCCACTGGATCTAAAATCCAGCACGGAATTATGCTGACCACATCAGCCTAACTA
ATATTGATCTAAGTAACATTTATGTTCTAGCACCTAAATCAGGAGCCTGCAAAGGATAGC
CCACTGCCAAAATCTGGCCCACTCTCCAGTTTTTGTAACTAAAAATGTTATCAGGAACCT
CAAGCCCAAGGTCCATTTTCAATTTACCAAANCTGGTCTTACGGGTGGGCAGGAGACCAAT
TACCGGCTCACAAAAGNCTTAAAAATATTTTACCTCTCTG

Sequence 2157

CCCGCGGTGGCCGGCCGCCCGGGCAGGTACCTGTTTAAAAAATTCTAGAGAGAAAACTAT
AGAGAGTGTAGTGTGTGATTCAGACATACTAACCATCCTCATATGGACTCACTCTCTAAA
AACTCCAGACATAGCCAGAAAGAGGCAGAACAGCCACAGCAGGAGAGATCACTGATGCTC
ACTGAGGCAGAGGACTTTGTCATAACCTGTAGAAAACATTTTCCCAATGTCTCTTTACCA
CATTGGGATTATAAATTTCTACATTCTTCTTCTTTTACTGGGGCATTNTATANCAA
NCTTGGAATACANAANATATGGNGAANAATTAATCNTTAAAAATNTTAAATTTTACCC
ATCCCTTGTNCAGGACAAAATTAACATTCATTTATGGAATC

Sequence 2158

TACACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCCAGCTCTGTCTCTCCTCGGAG
CAGGATTCATCTTTTCCATGGCTGGGGCCCTTGACACATGTCACTGTGCACTGCTCTTT
TCGCTGGGATTTCCAAAAGACCTTGGCTCAGGTGTCACTTTTGCAGAAAAGCATTTTACTG
ACTGTTGACTTGCCAAATCCCTGTGCTGTGTTTCTTAGCACGGTGAGTTGCATTTTCAC

Table 1

ATGAACTCATGCCTACCTTCTCTTGTATTAAGCTTCATGAGGCAGGTACCTCGGNCCG
CTCTAGAACTAAGTGGGATCCCCGGGCTGCAGGNAATTCNATATTNAAGCNTATTGAAT
NCCNCNAACCTTAAGGGGGGGG

Sequence 2159

CCGCGGTGGCGGCCGAGGTACATTTTACAAAATTAAGTCACTTTGTAGGTATATAAAAA
GTTTTAAAGTTGGTTTATTAATGAGAGTAGTGTACTACATTTCTTTTCAAGCAGTAGTT
TAAATATTAACCAGTTTACTTTTTTTTAAAGTCAATTTACTTTTCCAGCCTGGACAACAT
GGTGAAACCTCGTATCTACAAAAATAGAAAAATTAGCTGGGCGTTGGTGGCTCACGCCG
GTAGCCGTGTTTCTTTGGTGGTGATACAAATGTTCTAACTGACTGTGGCACTGGGTT
TATTACAACCTCTGTGGACTATTACCTAAAAAATCACCTGGAATTTGTACCTGGCCCCG
GGGCCGGCCCCGCTCTAGGAACTAGTGGGATCCCCCCCCG

Sequence 2160

CCGCGGTGGCGGCCGAGGTACGCGGGTTTCCTCAACATGGCTGCGCCCTTGTCACTGGAG
GCGGAGTTCGGGTGAGTCACAGAGCTGGGGCGCCGTGGGGATGGATTGAAGTCGTCGGGC
CCAGAATTCCTTTCTTCTGCGGTGGGGCCTGACAnnnnnnnnnnnnnnnnnnnnnnnnn
nn
nn
nn
CAATGGTCATAGGCTGTTTTCTGTGGTGAAAATTGTTATCCCGCTTCAACCAATTTCCC
ACCACCAACATTACCGAAGCCCCGGGAA

Sequence 2161

CCGCGGTGGCGGCCGAGGTACGCGGGGGAAAATGTCAGAGATGGGAAGAAACAAGAACTT
TGACATGCTTGGTGTCTTGCCCAAGCTTTGAAGAAGTTTACAAAGTCTATATGTCAGAA
TACACATTTCCACCTTGCCCAACAGTAGAAAAACATAAGAAGAGAAAAACATTAAAAAA
TGACAAGGAAGTTAATGGAAGTCAGCAATGTGATGGTGTGGAGGTGGAGCCTTCAGAA
GGTAATTAATGCCCTTGTAAGAAGAGGCCAGAGAGCTTGCGCACCTTCTTCTGCCATGT
GAGGAGCCAAGAAGCCGGCTGTCTGCAACCTGCAAGAGGACCCTCACTAGAAGCTAGCCA
TACTGGCATCCTCATCTTGGCTTTCCAACTTTCCAGAACTGTGAAGAAGTATATGTTT

Sequence 2162

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTGAACCAAAATCATAG
ATTTAGAGTTGGAAGTGACCTTTGTGATCATTATTTCAATCCTTTCANANAATTCTNTNT
GCAGGAATATCTATGTAGGACTTGATTGACCCAAGCACATACATGTCTCANAGGGCT
NTNTGCTCCTGGCCAANAGCATCAGGTCTGTTTTTAATATAATCAGNGTTGTAAATTAT
GGCACAANANAACAGGCTCATTGAGCTGTGGAATGAACTGAGTTAAATGGACTTGTAACA
TCCCTAAATGAAAGAATTAAGAAAGTCAATGAGGGAATTNTATAGCCGNCCCTTGGTATC
CTCAAGGGATTGGGTTCTAGGGACCCCTGGGGGATACC

Sequence 2163

CCGCGGTGGCGGCCGCCCCGGGCAGGTACGCGGGGGCAGTGGGAAGCTCGCAGCAGCTGGG
GAGGAGCCAAAGCCTCGGCGCTCACCTAAGCCGCAGGGAGATACACCAACTGGGAGATG
AGGAAACAGCAACCCAGAGAGGAGAACTAACCCACACAGGATCATTTGCGGAAGGAGCAA
GGCTGAAGAACCAGACCTGGACTTTCTTAGGACAACTTACTGCAGCTTGAAGGAGCCAA
C

Sequence 2164

NCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGTGAGTATTGCTTAT
ATGTCCTTATGGGGATGGGTGCCACAAATAGAAAAATGACCAGATCAGGGACTTGAATG
CACTTTTGCTCATGGTGAATATAGATGAACAGAGAGGAAAATGTATTTAAAGAAATACG
AGAAAAGAAAATGTGAAAGTTTTACAAGTTAGAGGGATGGAANGGTATTGTTNAAATNNTT
GAATGCCATGGANNGGCCNAAATNGNTTTTTTTTNGGCCNCCAAAAACCCCCCTTTAA
ANNNTNTTTTTTGGGGACNTTTTGGNAAANGTTTTTAAAGTTTTNATCTTTTNAAAACC
CCTTTTTTTTTTTTCCNCNCCNCCAAAAGGGGGGTNTNTTTTNNAAAAA

Table 1

AAAAANANGGGGGGGCCCCCNCCCTNTTTTTNGGGGGGGGGGGGGGNGGNAGNTTTTTT
TTTTTAA

Sequence 2165

GGTTAAACGAGCTGTTCTTGGGGAAGTCCTCCAGTGAGTCATGCACTTTTTGCACTTTT
TGGATTTGCTAGACATTTTCGGTTTCTGGTCTGGATGCCTTCCTTCTTCATAGTCAGGG
GTCTGTTAATCTAAACAAAGATCAATTTTTTTTTTTTTTTTACTTTTTTGCTGCCTCT
GAAATGCACAGGCTCTCGCACACCAAGAAGGGTTCCACTGACCGCCCCGGATCAGGGATC
TGTTTCCATTTTCACTGGCCCCCTTCCCTCCCTCCACCTTCTCCTGTCTCCTTCCAGGGA
CTGAAGAACTAAAATACATACAGTTACCAGATTACAGCCCCGTCTAGTACCTTCGGCCGC
TCTAGAACTAGTGGGATCCCC

Sequence 2166

AGGTACGCGGGAAGGAGATGTTGCCACCTAGGTTACTTGTAGGACCCTATACGGCAACCT
CCTTTGCCAGGAACTATTTATAAACATCCTGCAGGAAAATGCAGTGAAGTAGAAGAGACA
GGGATATCCCAGAAGGTTATGCAAAACATCAAGAGAAGATGAGAGGAGTCTATATGTCAG
AATACACATTTCCACCTTGCCCAACAGTAGAAAAACATAAGAAGAGAAAAACATTAAAA
AATGACAAGGGGAAGTTAATGGAAGTCAGCAATGTGATGGTGTGTTGGGAGGTGGAGCCTC
AGNAAGGGTAATTAATGCCCTTGAAGGAAGAGGCCAGAGAGCCTTGTGGCACCCCTCT

Sequence 2167

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGGCAGCTAAAATCTAGGATG
GNGTTAAGTTTCTTCATTTTGTCAATTATATATAAAAAATTAGAAACAACATGAATCTGC
ATTTCTTGGATGAGATAGTTAATAACAACTATTTCTCAATATTTGTATACTAAAACTA
GTGAAGGTGTTATGTGTTTCAGTATCTTATCTCTTATTTGAACATGGGTTTCTGAAAGGA
GCCTATATAATAATATAAATGGTATGTANTAAATGAGGCACTGTCTTGGCTGGGACTGCT
ATAAAAAAATTACCATAGACCATTGGACTA

Sequence 2168

GACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCCGGCCGCCCGGGCAGGTACCCTG
CTGAAAGATTATTTCTAACAGGCTTGAGAGAAACGTCGGTTCATGTAAATTAGAAATTA
TGGGGCCACTTTGCCATTCTTCACACCTGCAATGAACAGGTGTTTATCTGCAGTTCTGAC
TTATCTCTTGAACCTCATTGTCATGTTATAGTGGGATGCAGCTGATGCCCTGTCCAGATC
TTCTTCAGGCCACTACATCTATATATGCATTATTCAGTGGCTGTGAGTGTGCTG
TTGGTTGACAGAGGAGCTGCATCCTTCTGGAGGAACTGAACCTCAGCTGATGAAAGCCAC
CTGGTCCTGGAGGTGAAGC

Sequence 2169

CGAATACGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGCAG
CCATTGTTGCTCCCTTTGCCCTTCAGGGTGTCTTTCCCAGCATCTGTCCCTGCAGCACC
CCCACCCCTCACTCTAATCTGAGCACTCAAATTGCCATCAGTCCAAGCCTTCTCCTA
ATCACAGCCCTCCTACCTCTGAGCCCCCTTCATGGAGCCCTGTTTCATGGTGTCTGGCATT
TATGACAACCTAAACCAAAAAGCAGTGAGGTTTGAAGAAAAAGAGTCAAAAGTCAATCCTG
GCAGGGGAGGATTTGCTCTTTGTCTTAAAAACCAAGAGTACCTGCCCGGGGCGGCCGCT
CTAAGAACTAGNTGGGAATCCCCCGGGCTGCAGGAAT

Sequence 2170

GGTGGAATCCGGTNGTCTTTCTTCTCACATTTGGGATGAATTGGTCATAAGGGTTTTTAA
GCATGGTTTCCCTCCCTTTTCTTTACCCCTCCCCCTTTTTTCTTTCTAATTAATCCA
AGAAGAAAACCTTTCAAAGGTTAATGGGGGAATGGGTCCGGGGATTCTCACCAGGGC
CTTGAGGAAACCTTCGGTTTCCACCCTCCCAANGCCANTTTTCATGGAAAAAANGCC
TNGCTTCTTTATTTAAATTAATTACCAAAAACCTTCTTCAACCCCATGGAATNGTGG
AAAAGAAGGTTTTCAACCAAAAAATTCNTTTTTCAAAAAAATAAAAAAAGGTTAAAT
TGGAACCTTTAANNAAAAACCTTGCCNNGNNTTNNNATNANTGANAATANANNNNNCCC
AAAAAGGTTACCCCT

Table 1

Sequence 2171

GTGGGCCGGGCCCGCCCCGGGGGCCAGGGGTTACGGCCGGGGGCCGGCCTCTTGGCAACA
AGCAAGTCAAAAAGCCCAATCNCCTTTCCGGNCGGGTTGGCCGCCAANGGGCCGGGGGCC
ATTCGGGCCGCCACCTTCTTAATGGGGCAATTTGGCTTGGGTTTCTTACCCAAACCGTTG
GAACCAGGGGTNGAATCCAAAGGTTTTAAAGAAAAAGCCTTGGGAACCGTTCNCTTCTT
NCCAAACCGAACCCCTTGGGNTTTAATTGAAACCANTGTTAAAAAGGTTCAATTCCTT
TTTTTGCCCCACCCGTTGGTTGGTTTCCTCCGTTGGTTCCAAGGAAAAGGAAAAGGAATA
AAAAACCAACCGGCCCAATTCCAATTAAGGTTTGGGGAACCCCGGGGAAGGAAAAA
AAAGGGGGGGGGTTAAAAATTAATTGGTTGGGGGTCTTTGGTTTTTTTTTGAATTCC
CCCCCTTTTGAATTGGGGGAATTCCTTTTCCAAAACCAATTCGGGAATTTTGG
GCCCCTTTTGGTTNGTTTNCCTCGGNTTTTGGGGGAAAAACCCCAATTTTTTTTT
GGGGGCCAATTCCTTNAATTAAGGGAAAAAANGGNAAAAAATTTCCCAAAANCCTTG
GGAATTGGGAAGGNCCCCCTTTTTCTTTGGNAAAGAAAAAANGGGGAAATTGGGCCTT
TCCCCCGGCCAAAAACCCCAAGGGGGNCCCCCGGGG

Sequence 2172

CCGGGCAGGTACTTGTTGCTTTGGTGAGTGAATGAATGCCTTGATGAAATTGCATTGC
ACCATTTTTGAAAGAGAGAATACTCAAACGTGTCACTTCTGTTCTTGCAAGCAACTGTG
ATCCTGANCTGTGCCACACTTTCTTGGTTGGGATTATTTCTCGGTTTCTACTTNCCTNGT
TCTGANAGTATGTTGGCCANNGTGAGTAGTTGANACATAGTCNTGNATGCTCCACNCAC
TCTAGGCAATCAACNAGCACCNACAGTAATCTTCAAACGTAATTTTCCCATTGGGGTACN
CACCAAGNCATTCCTCCAATTCCTNTTGGNGACTTGAATNCTCACGNAANATAGAAACC
CCNCCTTTACCTTGGANTAGNTTCNCNANNNAGGGCCACCCTTTTTTTTTTTGAAAAA
GGGGCCTTCCTTGGCCTTTTTTGAACCACTTGNANAGGNTTAATTTTTT

Sequence 2173

AGGTACTTTATTTTTTTTTTTTTTTTTTTTGGCAGTGGGAGAGTTTTTATTCAATTTG
TGAAGGACAGTTTTAAGAACAAAATGTTANTANACACCTCTTAGAAACCACTGGGTNGT
TCATTTGGACCATTTTTATCTGCCACCCCAATTTTTTTATTTACAAAAAAATTCNAAAA
AAAAAAGGTTAAAAAATTTNCATTTCCCAAATTAATTTTTTGGCAANGGAGGTTATTAA
NACCCACANTTAAGTTNTNGCCCNNTAAGNAACCAAAAAAAGGCCTTAAATTTTTTNC
TTAACCAAAAAAATTTCCANAAAAAANACCTTTTAAANTNGGCCAAGGTTTTTTTTTA
AATTTTAAAGAAAAGGAAGGTTCCANAAAAAATTTTCTTCTTCCAAGNTTTTAAAA
CCTTGGGGAATTTATTAACCAATTAAGGTTGGGGGNTAATTANTTAATTCCTTTTAAAA
AGGCCANGGAAAAAAACCCCCCCCAANAAAAAANAAANCCAAAAAANNAACCCAGANGG
GGGAAAAAANAAAAAGGGGAAAAAATTTACCCATTTGGTTTNCAAAACCNAGGNTCC
CAAGGNTTATAAAAAATTAATTTTTTTTGGAA

Sequence 2174

AGGTACGCGGGGACGCTGGGAGGAGATGCTGCCACCTAGGTTACTTGTAGGACCCTATAC
GGCAACCTCCTTTGCCAGGAATTTTATAAACATCCTGCAGGAAATGAGTCTATATGT
CAGAATACACATTTCCACCTTGCCCAACAGTAGAAAAACATAAGAAGAGAAAAACATTA
AAAAATGACAAGGAAGTTAATGGAAGTCAGCAATGTGATGGTGTGGAGGTGGAGCCTT
CAGAAGGTAATTAATGCCCTTGTAAAGAGAGGCCAGAGAGCTTGCGCACCTTCTTCTG
CATGTGAGGAGCCAAGAAGCC

Sequence 2175

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGTGGCGTAGCATTCCATGT
TCAGCTTTGACATTTATTTCTCATATCAACCCTTTTACACGTGAAACACAATCCCGCT
CTTGAATTCCTAACTGCATGATCTGTGAAACCTGTATTTATATTTTCTTCAGTGGTATTC
TTTGTGCGGTGTGTGTCTTAACAAACCAAAAGAAAACTTTCCAAATCTAAAGTATTCA
TTCTCCAATTGGAGCAAGAGGAGTCAGTTAGATACTATCACGGCATTCAATTTGTGGCTGG
CTTGTCTATTTACTTATGATTGATAATAAATCTATTTTGCTTTTAGAGCCTCCCGAGA

Table 1

AGCCATCTGCCTTCGAGCCTGCCATTGAAATGCAAAAGTCTG

Sequence 2176

AGGTACGTGGCGTAGCATTCCATGTTGAGCTTTGACATTTATTTTCTCATATCAACCCCTT
TTTACACGTGAAACACAATCCCGCTCTTGAATCTTAACTGCATGATCTGTGAAACCTGT
ATTTATATTTTCTTCAGTGTATTCTTGTGCTGTGTGTGCTTAAACAAACCAAAAGAAAA
CTTTCCAAATCTAAAGTATTCACTCTCCAATTGGAGCAAGAGGAGTCAGTTAGATACTAT
CACGGCATTCAATTTGTGGCTGGCTTGTCAATTTACTTATGATTGATAATAAATCTATTT
TGCTTTTGTAGAGCCTCCCGAGAAGCCATCTGCCTTCGAGCCTGCCATT

Sequence 2177

AGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTNACTTGTTAAAGTTCTTTTTACTGNNG
CTGTTATAAAATTTAAATATATGTGTGACTTGCAATTTCAATTTTATTGGCCAGGGATG
CTCCANAAGGTTGATGCCTGAACTAGANATCCATTACCTTTCTCCTCTCTAGGGCTTC
AAATTAGGTTTAAATTAANAACACCTTTGCTATATATAATCAATACAAAAAATTTACC
CACTTATTGTACTTTGCCCTGTGACACTGACCTCCCATTTCTCCACCANAANAATAATC
AAACCCATCACCAACAAATCACCCATCCATTATCCCCGCGTACCTGCCC

Sequence 2178

CCGCGGTGGCGGCCCGCCGGGCAGGTACCGCATTCTACTTCATTGCCCTGATGTAAC
GGACTCCCAACAATACCGGAGAGTAGAAATCTTACAGAATATTTTGTGGCGTGGATGTG
AACAAATGCTGCAGCTGTATGCCAGTATGCTGCATGAAAGGCGCATCGTGATTATCTCG
AGCAAATTAAGCACTTTAACTGCCTGTATCCATGGATCAGCTGCTCTTCTATACCCAATG
TATTGGCAACACATATACATCCCAGTGCTTCTCCACACCTGCTGGACTACTGCTGTGCC
CCAATGCCATACCTGATTGGAATACACTCCAGCCTCATAGAGAGAGTGAAAAACAAATCA
TTGGAAGATGTTGTTATGTTAAATGTTGATACAAACACATTAGAATCACCATTAGTGAC
TTGAACAACCTACCAAGTGATGTGGTCTCGGCCCTTAAAAATAAACTGAAGAAGCAGTCT
ACAGCTACGGGTGATGGAGTAGCTAGGGCCTTTCTTAGAGCACAGGCTGCTTTGTTTGA
TCCTACAGAGATGCACTGAGATACAAACCTGGTGAGCCCATCACTTTCTGTGAGGAGAGT
TTGTAAAGCACCGCTCAAGCCGTGATGAAACAGTTCTTGAAACTGCCATTAACCTNCA
CTTTTAAAGCAGTTTATCGATGGTCGACTGGCAAACTAAATGCAGGA

Sequence 2179

CGAATNGGAGCTCCCCGCGNGTGGCGGCCGACGTACNGTGATCATTACTCCCCAGCGCAGC
TCAATCCACTTNCAGACTGNTCTAATTGTNGGAATAATNTCCCTTATGTAATCAATNTC
CCATCTATTAATTNATGAGATATTTATTTAAACTGACCGTATTCCAGGAAGTGGGCTAA
ACGAAGAAGAGTAGTGAATTAATACAGAAATCACCTNGATTGGCAGAATATNTCCCT
GGTAGTGTAGGTCACCCCTATTGTGGTGATAATCCCCCANATCATACGCANAAGAAACA
ACACACAGACAAAAACCAAGTCATNCTTCTAGGATGTTTTCATCCAAGGATTTGAAAAGA
TTAGGTGATCTTCCATTNTTCCTATGCAATCTGGGCTATGCTACTACTTTACAGAT
TGAAAATATATTTAAAAATCACTGAACTTTCAATAGTCACCAATGATCACTGTTCTAGTT
GCAGTTCAATTAGGTGTTCAAGGAAACACTTATAACTTAAATTTAATGTCTAAATCTTAC
ACCTTTAATTGAAAAATAATGTAATAAGTGAGCAATTAGATTATCTAGTATTAGAAAA
TAAGTGAAGATTGGCTGGGCATGGGGGCTTATGTTTGGTATCCCAGCACTTTGGGANGCA
GAGGCAAAAANGGATTGGTTAAGTCANGAGTTCCNAAAAC/ACCTGGGCAAAACCGGCAA
GAACTNCATCTNTTNAAAAANNANNNNANNNNNNANGGTCTTGCCGGGCGGGCCNTTT
ANAACCTGTNGGATCCCCCGGCTNGAAGAATTCCANTTT/ANCNTATNGATACCGNGNAC
CTGANGGGGGGCCCN

Sequence 2180

CCGCGGTGGCGGCCCGCCGGGCAGGTACCTGTGAACTGAGGAATTATAGATAAACCTTAG
GTCAAATCATTTACAAATTGCATTGGTGGTATTGAAAAATGATGAGATTTCTCTGACAGA
GAGCTTTGTCTAGTTTTTGTCTTCATAGGTCAAACTGGCAATATTCTTGTCTGCAA
GATAAAGTGTGTGCTTCTATCACCATATGCATGAACATGTAAGAATCAGATACAATTT

Table 1

CTGCTTCATCAGTTTCACATGTTTCATGTTGTCACCTGAAAAAATGCATCTACTGTTTATAG
CTCCCAAGGAGACCCCAAATCCTTTTTTTCTTTTGAGATGGAGTCTTGCTCTTGTTGC
CCAGGCTGGAGAGCAGTAGCGCGATCTCAGCTCACTGCAACCCCACTCCTGGGTTCAA
GTGATTCTCCTGCCTCAGCCTCCCCAGTAGCTGGGATTTACAGGTGCCCGCTACCATGCC
TGGCTAATTTTTGTATTTTAGTAGAGACAGGCTTTCACCATGTTGGCCAGGCTGATCTC
AAACTCCTGACCTCAGGTGATCCACCCACCTCGGCCTCCGAAAGTGCTGGGATTACAGGA
GGTGAGCCACCCGCGCCTGGCCCCGATTTCATTTTTTATACTGGAAAACATTTTTTTTN
GAATTTT

Sequence 2181

TATAGGGCGAATNGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTAACCTTATCCC
CAGAGGAAACAGGGTTTATGAGCACTGACAGATGTCTTCCCTGGGCAAAAAAAAAAAAA
TAGTATATGTATACACACACATACACATTTATTTATATTTCTTAAAGCTTTTAAATC
CCTTTCATTCCCTGATATCTCAGAGATTTCAAATCATTGAACACTGAAGTATATTTTCA
GGCCAGATGAAAAATTGTATTAACCCTATTCTGGTCAGGCGCAGTGCGCTACGCCTA
TAATCCCAGCACTTTGGGAGGCCGAAGTAAGCNGATCACCTGAGGTCGGGAGTTCAAGAC
AAACCTGGCCAACATGGTGAAACCCTGTCTCTACTAAAACTACAAAAAATTANCCTGAT
GTGGTGTTGTGTGCCTGTAGTCCCAGCTACTTANGAGGCTGAGGTAGGAGAATTGCTTGA
ACCTG

Sequence 2182

ACTACTATAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGAGGTACGCGGGGCTTGCCCT
GGAGTCTGATCTGTCCCGGCCAGTGCTCCTCCAGGACCCTGGCCCCCTATGCCTCCGTGC
TTGCGCGTGTGCCATTTCTCTCTCCAGAGGACCTTTCCTGCTAGGACTCATGATTGTCC
CCTCCCTGGCATTTTTTACACCTGGAGCAGCCAGAGGACGCATGCATGGCTCTTCGGAAG
CCTTCTCCTGCCACGGCATGCACCCACACATGCGAGCCTCCCGGGTACCTGCCCG

Sequence 2183

CCGCGGTGGCGGCCCGAGGTAAGTATCTAATCAAGATATTTGTTTTCTCATCCACCAG
TCACTTTCTCAGTCCTTTCTGTATCCCTTGCAATTTGAACAAAGCTTGGTGAATAGTGTG
CACACAAAAAGCACACTAGGTGAAAGACAGGTACATAAAAGGGTAAAGTCATGATATT
TAACAAACCTATCAAGCTCTAAATATAAGCCTCCTTGGTAGTTTTCTCTTAAACCCTCTC
TCCACTGTTGGATGAAATTTGCTGCATTCAATCCAGTTCCCACCCCAACTTCTTCTTA
ACACAAGGTGAGGGTTAAGCCTTCGGTGCTTTAATCCAGAGGAAAATTACTTATTTTAA
AAGCAGTGAAAAACACCGCATTCCTTTGGCACAGGATGAAGACCAGCTCAGCTCTTCAGT
TGTTGATCATTGTCTATTGTTCTCCAAACAGTAAACCAGTATTTACACTGAGATTGTGC
GCTGCGGGTATATTCCAATCCCCGTCTCCTCATGAATATGAAGTGAAGGGCTCTGACCC
TGGAAGTGGTAGGTAATTGCTTGGCG

Sequence 2184

CCGCGGTGGCGGCCCGCCCGGGCAGGTACGCGGGGAGATGCTGCCACCTAGGTTACTTG
TAGGACCTATACGGCAACCTCCTTTGCCAGGAACTATTTATAAACATCCTGCAGGAAAA
TGAGTCTATATGTCAGAATACACATTTCCACCTTGCCCAACAGTAGAAAAACATAAGAAG
AGAAAAACATTAAAAATGACAAGGAAGTTAATGGAAGCAATGTGATGGTGTGTTGGAGGT
GGAGCCTTCAGAAGGTAATTAATGCCCTTGTAAGAAGAGGCCAGAGAGCTTGCGCACCTT
CTTCTGCCATGTGAGGAGCCAAGAAGCCGGCTGTCTGCAACCTGCAAGAGGACCTCAC
TAGAAGCTAGCCATACTGGCATCCTCATCTTGGCTTTCCAACCTCAGAACCCTGAGAAGT
ATATGTTTGTGGTTAAGTCAATGGTCTATGGTAATTTTTTATAGCAAGTCCCAGCCCA
AGACAGTGCCTCATTTACTACATACCATTTATATTATTATATAGGCTNCTTTCAGAAACC
CATGTTCAAAATAAGAGATAAGATCCTGGAAA

Sequence 2185

TAGGGCGAATTGGAGCTCCCCGCGGTGGCTTGGAAAGCCAAGATGAGGATGCCAGTATGG
CTAGCTTCTAGTGAGGGTCTCTTGACAGGTTGCAGACAGCCGGCTTCTTGGCTCCTCACA

Table 1

TGGCAGGAAGAAGGTGCGCAAGCTCTCTGGCCTCTTCTTACAAGGGCATTAAATTACCTTC
TGAAGGCTCCACCTCCAAACACCATCACATTGCTGACATTTTCTGCAGGATGTTTATAA
ATAGTTCTTGGCAAAGGAGGTTGCCGTATAGGGTCCTACAAGTAACCTAGGTGGCAGCAT
CCCCCTCCAGCGTCAGGTCTAAGCACACAAGTTCTTCTTCCATCTACAAACCCCGCGT
ACCTCGGCCGCTCTAGAACTAGTTGGATCCCCCGGGCCTG

Sequence 2186

CGAGGACGCGGGAGACCTGACGCTGGGAGGAGATGCTGCCACCTAGGTTACTTGTAGGAC
CCTATACGGCAACCTCCTTTGCCAGGAACATTTATAAACATCCTGCGGGAAAATGCAGT
GAAGTAGAAGAGACAGGGATATCCANAAGGTTATGCAAAACATCAAGAGAAGATGAGAGG
AGTCTATATGTCAGAATACACATTTCCACCTTGCCAGCAGTAGAAAAACATAAGAAGA
GAAAAACATTAAAAAATGACAAGGAAGTTAATGGAAGCAATGTGATGGTGTGGAGGTG
GAGCCTTCAGAAGGTAAATTAATGCCCTTGTAAGAAGAGGCCAGAGAGCTTGCGCACCTTC
TTCTTGCCATGTGAGGAGCCAAGAAGCCGGCTGTCTGCAACCTGCAAGAGGACCCTCACT
AGAAGCTAGCCATACTGGCATCCTCATCTTGGCTTTCCAACCTCCAGAACTGTGAGAAGT
ATATGTTTGTGGTTTAAGTCAATGGGTCTATGGTAATTTTTTTATAGCAGTCCAGCCA
AAGACAGTGCCTCATTTACTACATACCATTTATATTTATTATATAGGCTCCTTTTCAGAAA
CCCATGTTCAAATAAGAGATAGATACTGAAACACATTACACCCCTTCACTAGTTTTTTAGT
ATACAAATATTGAGAAAAT

Sequence 2187

CGAGGTACATTATCAAGTGTGAGATGTTTGGGATATACGCAAGCTGTGCCTGGAAATCAT
GACAGTGCCTCTATGCTGTTGATGTACCAGCCATGCCGTTTCTGCCCCTATATCCTTTCT
TAAGGGTAAGTAATCTTAGTGCCTGGTGAAGCTAATTTTGTCTCACGAGCCCCAACTGTTA
ACCTGAATCCAATACCTATGCTGCTGGTGAGACAGAGTGGGTATGAAAAACATATAACC
TGAAAAATCTACTTATATATGCTAAACTAATAAACCTGAGGGATATGCAGGGGGAAAAAA
TCAATTTTAAGGAAATCTAACACAGAAAATAAATTCACAATGAAATAAAAAACATAAAAT
TGTGCAAGCAAAATAAAATACTACACTTAAACATAAAATATACTTGTAAAAATATGGTA
ACTCTTTACCCCACAATTA AAAAGCTTTAATCACCAGTCTGATTTCTATTTATTTTGCA
CTGAGATTCTTTTCTATGAGAAATACATCACAGGTTGATTTACTTTAAAAGCAAGCCCAT
TTAGTGGTTGAAANTAAAAAAAAAAAAAAAAAAAA

Sequence 2188

CCGCGGTGGCGGCCGAGGTACGCGGGGTTTCATGCTCTCTCTCTCCATGCACAAGAAAGAG
CACACAGTGAGAAGGAAAGAGGCCCTCACCAGAACCTGACCATGCTGGCACCGTGATTGC
AGACTTCCAGCCTCCAGGATTGTGAGAAGATAAATATCTGTGGTTTAAGTCACCAAGTCT
GTGGTGTGTTTTATGGCAGCACAAAGGTAACCCAGATGATGCCTTTCACCACTGGGTGGTC
CAGCCTTTTCATGGAAGCTGTCAGCTTCTCAGCCTTGCAAAAAATGCTTGCTGGTCACTCT
CTTTGGTCTTTTCAGATGCCTTTCTTAGTGGTGCCTCTACCAGGCCCTTGACTTCATCCT
TTTCTGTCAAGAGGAAGGGTGAGTAAAGTACCTGCCCG

Sequence 2189

CCGCGGTGGCGGCCCGCCCGGGCAGGNACTTNTTTTTTTTTTTTTTTTTTTTTTTTTTTT
AACNGCTGTTCACTGCTACCCATTTAGTCAACTTGGACCACCCTNTAGAGGGGCTTCAAC
TGTTATTTTCAATACATTGTCACAGGGACAGAGGAGGGTGTTAGGGAACNTGTGACTAA
ANAGTTTTCCATAAATGGGTGGACCTCAGTTTACAAGCATTAAAGTTGTGGGCCAGGAGG
GGGAACAGATCATGATTAGGAGAGTGGAANAAGATGACAAATCACTTTAAGTCANAC
AAACCTCTTTCTGTACCT

Sequence 2190

CGCCCGGGCAGGTACGCCTACTCAACCCGGCTGTTACCATTGGTGGCATCAGCATCCCA
TACACATGGAACCACACCGTTTTCTATGATCAGGCACAGGGAAGAATGCCTTTCTTGGTT
GAAACACTTCATGCATCCTCTGTGAATCTGACTATAACCAGATAGAAGAGACACTGGGTT
TTAAATTCATGCTTCAATATCCAAAGGAGATCGCAGTAATCAGTGCCCCCTCCGGGTTTA

Table 1

CCTTAGACTCAGTTGGACCTTTTTGTGCTGATGAGGATGAATGTGCAGCAGGGAATCCCT
GCTCCCATAGCTGCCACAATGCCATGGGGACTTACTACTGCTCCTGCCCTAAAGGCCTCA
CCATAGCTGCAGATGGAAGAACTTGTCAAGATATTGATGAGTGTGCTTTGGGTAGGCATA
CCTGCCACGCTGGTCAGGACTGTGACAATACGATTGGATCTTATCGCTGTGTGGTCCGT
GTGGAAAGTG

Sequence 2191

CCGCGGTGGCGGCCCGCCCGGGCAGGTACACACAAAGACAAACCTGAACTTAATTTCAAGG
AAACTTAAACCCATGCACAAATAATTGGTGAGCCTTCATTTCCCTGACTTCAAGTTTCC
ATGTGAGGACTCATGCTCTCTCCACTTTCTTCTTGGGAGGAGGGAAGATTACCTAATGG
GTAAATTTGGGCAAAGCACATTGAGTGTGCTTGTGGCTCTGAGTCTCTTGC AACAT
GTGTCTGCCACAGTGACATGAGTTTGC GTTACTGTCATGTCTGCAGGAAGCTGCCTGC
TCCTGTGGCCATGTCAAGCAATTCCTTCTTCAACTGCAACTGTGTGTAAGAGCTTAGTC
TGAGAAGA

Sequence 2192

CCGCGGTGGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTCAGGATN
ATTAGGAATCATTTCCAACACCAGGACAAATATGCAAAGTAAAGNGGGTATTGTTATTN
TTTGTCCCTAGTTCACATGATTANATTGATNAAAATGNNAATTTTACATATGTGAATA
AAACGTAAAGGAGCAAACCTGGANATTGCTGCCATGTGCTANCAATCATTNGGGNGGGTA
AACTGACAACATGTAAGTGCATATTAANACAAATGTAGAATTTANACAAAGTNTTCCATC
TTTTTTNAGATGTATACTTTTAAACCTCAGGAAGTGTTCAGTAGATGTCATGCCTTTT
AACTTGAA

Sequence 2193

GGNGGCGGCCGAGGTACGCGGGGGTAAGATGGANGGAAGAACTTGTGTGCTTAGACCTGA
CGCTGGGAGGAGATGCTGCCACCTAGGTTACTTGTAGGACCCTATACGGCAACCTCCTTT
GCCAGGAACATTTATAAACATCCTGCANGAAATGAGTCAAGGAAGCTTTTCTTTTGAG
CTATTTACAGCTTTTAGCAATTGNGTAAAGTNTACTCCTGTGAACAAAATTTGGAACATA
TTTGGTTCTCTCTAACTGATTNCTCCAGAATTTGGAAGTAGTTGTAGCTGAGACCAATGA
TGCTGACCTNCCTCAAAGCTGCATTTCTGAATTTCTGAAGGCAAAGTGTCTGCCTATAT
TGTACCTGCCCCG

Sequence 2194

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACCATCCCCAAGGACA
CGGAAGTATTTCTCATCCTGAGCACTGCTCTCCGTGACCCACACTACTTTGAAAAACCAG
ACGCCTTCAATCCTGACCACTTTCTGGATGCCAATGGGGCACTGAAAAAGAAATGAAGCTT
TTATCCCTTCTCCTTAGGTAAGCTGGACCCACAGTTTCTTCCAGACACCAGAGGGCA
GGTCTATCCTCAACTTGAGAAAAAAATGACAGGTCTTATTAATTGAGCACTTAATAT
ATTCCAATTGCTTCACTGCCTTATCCCTTCCATCTTCACTACAACCTGTAAGGAGGC
TTGAGAAAGAAGATGACATTTCCCAAAGGCACATCTGGGCAAGCAGGAAGTGGGCAAGTA
TTTAAACATCTCTAAACCTCAGTGAATTCATTTTCTTAAAAAGAAAAAA

Sequence 2195

TCCCCGCGGTGGCGGCCGCTTTCTCTTACTGATAGTAGGATATTTCTGCTTAGTTATTG
TCACCTTAAATATATTTCAATGTTGAAATCCTCACAGCATGTTTGATGAAATCTAGTTT
TCAAATTTTCTTAGGTATATTTCTGTCACGTTGGCATGATAACAAATGCAATAACCCAAA
AGACCCCAAAAGCTAGTGTAATCCCTTTTGCAATCCAAGCATGAGGATTCATCTTCATGT
TGACAGTGCCTGAATGTTGCGGTAGGCTTTGTCAAGCTTGACATAAATAATTATATATGT
CCCTTTTCTTTTAGGGTCTCCTGTTGAAGATGGTCTTCTGAAGGCTAACTGCGGAATGAA
AGTTTCTATTCCAATAAAGCCTTAGAATTGATGGACATG

Sequence 2196

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACACAACCTCACTCC
TTTTAAAGAAAAAATTGAAATGTAAGGCTGTGTAAGATTGTTTTAACTGTACTCAC

Table 1

ATTGGANCCACTAGGAATCCTGAGAAAGAGGAGTGGACATACTCAGAGGAGTATAGGCCA
TTTGA CT CGGCATTGGGAAACCTGGAGCCACACCTGGTCATTTTCTGTGAGATCGATGAT
GGCACTCCCTGAAGCCTGATCCAGGTAGCCTTTGGTGTATTCATCATANGTGTACCT
Sequence 2197
TTAGGGCGAATTGGAGCTCCCCGCGGTGGCCGGCCGCCCGGGCAGGTACAATATAGGCAC
GACAGTTTGCCTTCAGAAATTCAGAAATGCAGCTTTTGAGGGAGGTGAGCATCATTGGTC
TCAGCTACAAGTACTTCCAAATTCAGGAGAAATCAGTTAGAGAGAAACAAATATGTTCCA
AATTTTGTTCACAGGAGTATACTTTTACTCAAATTTGCTAAAAGCCTGTAAATAGCTCAA
AAGAAAAGCTTCCCTTGA CT CATTTTCTGCAGGATGTTTATAAATAGTTCCTGGCAAAGG
AGGTTGCCCGTATAGGGTCTCTACAAGTAACCTAGGTGGCAGCATCTCCTCCCAGCGTCAG
GTCTCCCCGCGTACCT
Sequence 2198
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCCGGCCGCCCGGGCAGGTACAATATAG
GCAGACAGTTTGCCTTCAGAAATTCAGAAATGCAGCTTTTGAGGGAGGTGAGCATCATTG
GTCTCAGCTACAAGTACTTCCAAATTCAGGAGAAATCAGTTAGAGAGAAACAAATATGTT
CCAAATTTTGTTCACAGGAGTATACTTTTACTCAAATTTGCTAAAAGCTGTAAATAGCTCAA
AGAAAAGCTTCCCTTGA CT CATTTTCTGCAGGATGTTTATAAATAGTTCCTGGCAAAGGA
GGTTGCCGTATAGGGTCTCTACAAGTAACCTAGGTGGCAGCATCTCCTCCCAGCGTCAGGT
CTCCCCGCGTACCT
Sequence 2199
CCGCGGTGGCGGCCGAGGTACAGAGGTGATAGATCCCTTCTTGGTAGTGGTAATTCTTTC
CTGCATAGTACGCGGGGGCTGTAGTGGCTTCGTCTTCGGTTTTCTTCTCCTTCGCTAAC
GCCTCCCGGCTCTCGTCAGCCTCCCGCCGGCCGCTCTAGAACTAAGTGGATC
Sequence 2200
ACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACAGAGGTGATAGATCCCT
TCTTGGTAGTGGTAATTCTTCTGCATAGTACGCGGGGGCTGTAGTGGCTTCGTCTTCG
GTTTTCTCTTCCCTTCGCTAACGCCTCCCGGCTCTCGTCAGCCTCCCGC
Sequence 2201
CTACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTT
TTTTTTTTTTTTTTGN TTTCAAACCCGCTTATTTACGCGAGGACTCCTCTGCGAAGA
CAGGAAGGATGGGGTCCACACCTGAGCCAGGCGCGGTCTCCACTGGGTGCTCCGCAGCC
CGGAGTGGNTCCGGACGACAGCCCCGCTTAACGGAACCTTTNCCCAGGCTNGGGTGGAC
CTNTCCGCTTGTTTTCTNAGGGCGCAAGTCAGGTTNTTTGACACACACCAACCGAAG
TTNAAGCGCGTGTCCCCGCGTACCTNGGCCGCTCTAGAACTAGNNGA
Sequence 2202
ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGNCAGGTACNATGTN
TAGTGATGAGTTTGCTAATAACAATGCCAGTCAGGCCACCTACGGTGAAGAAAGATGAA
TCCTAGGGCTCAGAGCACTGNANCANATCATTTACCCNCGTACAGTTTAGGGGATCCTT
TNTAATGACAGGAAGGCACTGCTTCTCAACACTGTNATCTGACCTGTGACAAGTCTGN
ACCT
Sequence 2203
TCGCACTCATTTACCCGGGGACAGGGAGAGGCTCTTCTGCGTGTAGTGGTTGTGCAGAGC
CTCATGCATCACGGAGCATGAGAAGACGTTCCCTGCTGCCACCTGCTCTTGCCACGGT
GAGCTTGCTATAGAGGAAGAAGGANCCGTCGGGAAGTCCAGCCACNNGGAAGGGCCGTT
NNTTCTTTGTAAGNTTGGTTTCTNCCCCGGCCTGGCCCTACCCCCGCGTAACNCTCCGGG
CCNGCTCTTAAGAAACCTANGTTGGGGATCCCCCCCCGGGGACNTGCTAAGGGNAAATTT
CNNAATATCANAGCCTTTATNCGNATTNCNCGTTCTGTACTCTTCGAAGGGGNGGGGGG
CCCCCGGNTTAACCCCCAAGCNTTTNTTGGTTTNCCTTTTAAAGGTTGGAAGAGG
GGTTTTAAAANTTTGGGCCGGCCGNCCTTATNNGGGCCGGTTANNANTTCCAATTGGG

Table 1

NTTCCANTTAAAGGGCNTTGGTCNTTNTNCCCCTTGGNTGGGTTNGNANANAAATTTTGG
GTTTTAATCCCCGGCCTTCAACCAAAA

Sequence 2204

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGTTGTAGA
TGGAAGGAAGAACTTGTGTGCTTAGACCTGACGCTGGGAGGAGATGCTGCCACCTAGGTT
ACTTGTAGGACCTATACGGCAACCTCCTTTGCCAGGAAGTATTTATAAACATCCTGCAG
GAAAATGCAGTGAAAGTAGAAAGAAGACAGGGGATATCCAGAAGGTTATGCCAAACATC
AAGAGAAGATGAGAGGAGTCTATATGTCAGAATACACATTTCCACCTTGCCCAACAGTA
GAAAAACATAAGAAGAGAAAAACATTAAAAAATGACAAGGAAGTTAATGGAAGTCAGCAA
TGTGATGGTGTGTTGGAGGTGGAGCCTTCAGAAAGGTAATTAATGCCCTTGTAAGAAGAGG
CCAGAGAGCTTGCGCACCTTCTCCTGCCATGTGAGGAGC

Sequence 2205

CTCCCCGCGGTGGCGGCCGCCCGGGCAGGACGCGGGGTTGTAGATGGAAGGAAGAACTT
GTGTGCTTAGACCTGACGCTGGGAGGAGATGCTGCCACCTAGGTTACTTGTAGGACCTTA
TACGGCAACCTCCTTTGCCAGGAAGTATTTATAAACATCCTGCAGGAAAATGAAGTCTAT
ATGTCAGAATACACATTTCCACCTTGCCCAACAGTTNGAAAAACATAAGAAGAGAAAA
CATTAAAAAATGACAAGGAAGTTAATGGAAGTCACCAATGTGATGGTGTGTTGGAGGTGGA
GCCTTCANAAGGTAATTAATGCCCTTGTAAGAAGAGGCCAGAGAGCTTGCGCACCTTCTT
CCTGCCATGTGAGGAGCCAAGAAGCCGGCTTGTCTGCAACCTGCAAGAGGACCCCTC

Sequence 2206

ATACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGGGGCCATTGAGACTGCCATG
GAAGACTTGAAAGGTCACGTAGCTGAGACTTCTGGAGAGACCATTCAAGGCTTCTGGCTC
TTGACAAAGATAGACCACTGGAACAATGAGAAGGAGAGAATTCTACTGGTCACAGACAAG
ACTCTCTGATCTGGAAAATACGACTTCATCATGCTGAGTTGTGTGCAGCTGCAGCGGAT
TCCTCTGAGCGCTGTCTATCGCATCTGCCTGGGCAAGTTCACCTTCCCTGGGATGTCCCT
GGACAAGAGACAAGGAGAAGGCCTTAGGATCTACTGGGGGAGTCCGGAGGGAGCAGTCT
CTTCTGTCCCGCTGGAACCCATGGTCCACTTGAAGTTCCTTATGCTACTTTCACTGAGCA
TCCTATGAAATACACCAGTGAGAAATTCCTTGAAATTTGCAA

Sequence 2207

CCGCGGTGGCGGCCGAGGTACTTTTATAAATACGCCAGAGATTGAGTCGAGGCTCTGAAG
AAAGTCCACCATGTGAAATTCCTTCCGGTGACATTATCCAGTTTGGAGTAGACGTGACAG
AGAATACACGGAAGTTACCCATGGGTGATTGTTTCCACAATAAACTTTTTCTACCCA
GATNGGTATNGGAAGCCCCGGCTCCGCTCAGATGTCATCCATGCACCATTACCAAGTCCTG
TTGACAAAGTTGCTGCTAACACTCCAAGTATGTACCTG

Sequence 2208

CCGCGGTGGCGGCCGCCCGGGCAGGTACACACAAAGACAACTGAACTTAATTTCAAG
GAAACTTAAACCCATGCACAAATAATTGGTGAGCCTTCATTTCCCTGACTTCAAGTTTC
CATGTGAGGACTCATGCTCTCTCCACTTTCTTCTTGGGAGGAGGGAAGAATTACCTAAT
GGGGTAAATTTTGGGCAAAGCACATTGAGTGTGCTTGTGTTGGCTCTGAAGTCTCTTTC
AAACATGTGTCTGCCCACAGTGACATGAGTTGCGTTGACTGTCATGTCTGCAGGAAGCT
GCCTGCTCCTGTGGCCATGTCAAGCAATCTTTTCTTTCACTGCAACTGTGTGTAAGAG
CTTANTCTGAGAAGAAATGTTGAGAAGCTCACTTGTGGGCTGCACATCTGAGCCATGTCT
TTCCCA

Sequence 2209

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGGGGCCATTGAGACTGCCATGGAA
GACTTGAAAGGTCACGTAGCTGAGACTTCTGGAGAGACCATTCAAGGCTTCTGGCTCTTG
ACAAAGATAGACCACTGGAACAATGAGAAGGAGAGAATTCTACTGGTCACAGACAAGACT
CTCTTGATCTGCAAAATACGACTTCATCATGCTGAAGTTGGTGTGCAAGCTTGACGCGGAT
TCCTCTGAGCCGCTGTCTATCGCATCTGCCTGGGGCAAGTTCACCTTCCCTGGGATGTCT

Table 1

CTGGACAAGAGACAAGGAGAAGGCCTTAGGATCTACTGGGGGAGTCCGGAGGAGCAGTCT
CTTCTGTCCCGCTGGAACCCATGGTCCACTGAAGTTCCTTATGCTACTTTCACTGAGCAT
CCTATGAAATACACCAGTGAGAAATTCCTTGAAATTTGCAA

Sequence 2210

AGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGAGAGGTCT
TTTGAACCTCCTTCGGCCACCGTCGCCGCGTTCTCGCTGTGCACTCTTATTCTGCGCCTGC
GCGCGGCTACAGCACGGTTCGTTTTCTTTAGTCAGGAAGGACGTTGGTGTGAGCATA
CCGTATCAAGGACAAGTAACCATGGCTCCCGAAGTTTTGCCAAACCTCGGATGCGT
GGCCTTCTGGCCAGGCTGTCTGCNAAATCATATGGCTGNANCATTGNNCTATCCCT

Sequence 2211

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAAAAAGCAAAGTCT
CCCATAACTGAAACAGAGGATTCTGTTTTAGAAAAAGGCCAGCTGAGCTTANGAGCAGA
GAAGGAAAAGAAGAAATAGAGAGCTTTGTGCATCTTCTACGATGCCTGCAATTCAGAG
CTTGCATCATTGCTTATGGGAAGGAATCTTCAGATTGAAGAAATTAACCTTTCTCTCCC
AAGATCATCAGCCTAGAGTCGAAAGAACCACCTGCCTCTGTAGCTGAAGGAGGCAACCCA
GCAAGAATTTAGCCATTTACTTTTTCTTTAAAAGGATTATCANAGGAGGTTAGCCATCC
AGCCCCACTTTAAAAGGGAGGAAATCAAGAAATAGGCCCATACCACCAACTGGAAAT
TGAAGGCACAAGTCATGGGGAGATATTTTTANAATAAGCTAAGTG

Sequence 2212

CCGCGGTGGCGGCCGAGGTACGCGGGGACAGCGATGTGAGCTGAGGTGCAGGCACCAGAC
CTAGGAATTCCTAGAAAAATAGTCAGGAAGCATTTAGACACATCAAATGTTAAACGAGTC
CTGATTATGATGATAATGATGATGATTTTGGTGGTTGCAATAGCAAAGCCTTAAGTATGA
AGGAGACGTGCCAGCTGGAAATACAGGTAGACAATGAACAAGTGAATTTAGAGGACGAAG
ACATTGAAAGCATTGATGCCACCAAATTGAGCCGTTTCATTGAGATCAACAGCCTCCACA
TGGTGACAGAGTACCTGCCCCG

Sequence 2213

CACTNCTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGGACCCGGGGGCTTGN
CCCCTNATGCCTCCGTGCTTGCGCGTGTGCCATTTCTCTCTCCAGAGGACCTTTCCTGC
CTAGGACTCATCATTGTCCCTCCCTGGCATTTTTTACACCTGGAGCAGTCAGAGGACGC
ATGCATGGCTCTTCGGAAGCCTTCTCCTGCCACGGCATGCACCCACACATGCGAGCCTCC
CGGTACCTGCCCCG

Sequence 2214

AGGTACAGGCATGAGCCACTGCGCCTGGCCCCATGTTTGGTTATTATTAGTGCTTAGGAA
GAGGCACTTGCTTACATAGTAGGAGTTGAGAAGCTTGGTTTGTTCTTTCTACCCCTAGA
TCTATTCTACCTCCTGACCATGCTCTTTCTGCCACATCTATTATCATTACAAGTTGCCT
TATCTGAAATTAGTGAATCAGAAAATAAAGCAGGGGATACTTTGTGTAGTTTCAACGTTA
GGGAAAGTTCAGAATACTGTCTGTCTAACTATCTCTCTAGAAGGCCTGATGGGCCACAA
CCTGGGCCAGAAGCATTGATTCAGATATGAGAATGGTGGGGTGAAGGGGCAATGGCCA
ATGGGCCATGGCCGGAAGGAAATTGTACAGAGTAGTGGAAGCCTGCAAAGACTGGCTT
CTGTCCGTTTTTGCTT

Sequence 2215

CCGCGGTGGCGGCCCGGGGCCATTGAGACTGCCATGGAAGACTTGAAAGGTCACGTAGCT
GAGACTTCTGGAGAGACCATTCAAGGCTTCTGGCTCTTGACAAAGATAGACCACTGGAAC
AATGAGAAGGAGAGAATTCTACTGGTCACAGACAAGACTCTCTTGATCTGCAATACGAC
TTCATCATGCTGAGTTGTGTGCAGCTGCAGCGGATTCCTCTGAGCGCTGTCTATCGCATC
TGCTTGGGCAAGTTCACCTTCCCTGGGATGTCCCTGGACAAGAGACAAGGAGAGGGCCTT
AGGATCTACTGGGGGAGTCCCGGAGGGAGCAGTCTCTTCTGTCCCCTGGAACCCATGG
TCCCTGGAAGTTCCTTATGCTACTTTCACTGAGCATCCTATGAAATACACCAGTGAGAAA
TTCCTTGAAATTTGCAAGTTGTCTGGGTTCATGTC

Table 1

Sequence 2216

GGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGATTGACATCCCACACTACC
TGATTTGATACACTAAGAAGGGCTTATCATTTCTGTGGTACTCTTGGCCAACAATGCACG
TGTAACATTTATTCATTGAAACACATTAGGCAGAATTGCAGGACATTCTTCAAAATAGCT
GTCCCAATACTCTTCAAAAGTGTGAGGTCTTGGAAAGACAAAGAGATACTGAGGAACCATC
ACAGAGTGGGAGAGGACATAGAGTGATAAAAACTAAGTGTGATGTGGAATCCTACATTGG
ATCATGGACCAGAAAGACAGCACTGATGGGAAGACTGATGAAATCTGAATAAGTCTGTAG
NTTTGGTTTAAAGAAGAATAATAACAATAATGGTTTAGCTGCTGGCTCCTTAATAAA
ATCCCCCTAGTTACTGTAATGTCTGAAAATGAACCCC

Sequence 2217

GACTNCTATAGGGCANNATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTT
TTTTTTTTTTGAGCCTCANTTGAACATTCTTGTCTTCCANAACCTCACTTCAAATG
GGTTTTCCATCTATCATGAGTCTAGTGTCTCACCTTTGTCTTACAATTAATCTTCTGC
ANATCCCCTCACACTGATCTCCTCCCCCTGAGCTTTGGACAATTATTTCTCTCATCTCT
TTCACATAAATCGCACTTGGAAAGACAACTCCTCAGGTTAAGCTGCCATCTGGTGTGT
ATTTTTCATCAAGAAGTACCAACCCACATCAATAGCATCCACCTTTACCATCACCTAT
ATAAGCAACTTACTTTGGGAACCTATTTCTTATTTTCAAGTCTCTATTTGAATCAATCT
AGCCTAGGTTAGGGACACTGGAACCAAATTTGGGCTGTCCCTGGACTGGCCTGGG

Sequence 2218

TACGACTACTATAGGGTGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTT
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TACATTGNGCAACTNTNATGTCCCCCTNTGACAAAAAAGGCACATAGCCAGNGTATGTT
CCCTGGGAAGCTTAAATCTANTTGGGGACAATCAGGCAAGAGCACAAACGGCCTNTTGT
TGGGCTGNGGCAAAAGCTGGATTTATCCTAATTGCNACAGGATGACATCAGGAGAGCA
ACATGATCTCATAGANATTCTTTAAATATATGAATTTTAACTT

Sequence 2219

ACGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCG
GGGGCAGTGGGAAGCTCGCAGCAGCTGGGGAGGAGCCAAAGCCTCGGCGCTCACCTAAGC
CGCAGGGAGATACACCCAACTGGGAGATGAGGAAACAGCAACCCAGAGAGGAGAACTAAC
CCACACAGGATCATTTGCGGAAGGAGCAAGGCTGAAGAACCAGACCTGGACTTTCTTAGG
ACAACTTACTGCAGCTTGAAGGAGCCAACCATGGATTTGAGGCGTGTGAAGGAATATTT
CTCCTGGCTCTACTATCAATACCAAATCATTAGCTGCTGTGCTGTTTTAGAGCCCTGGGA
GGCGATCTATGTTTAACACCATCTTACTAACCATATTGCTATGGGTGGTATACACTGCC
TATGTCTTTATTCCAATCCAC

Sequence 2220

GGGGAGGAGCCAAAGCCTCGGCGCTCACCTAAGCCGAGGGAGATACACCCAACTGGGAG
ATGAGGAAACAGCAACCCAGAGAGGAGAACTAACCCACACAGGATCATTTGCGGAAGGAG
CAAGGCTGAAGAACCAGACCTGGACTTTCTTAGGACAACTTACTGCAGCTTGAAGGAGC
CAACCATGGATTTGAGGCGTGTGAAGGAATATTTCTCCTGGCTCTACTATCAATACCAA
TCATTAGCTGCTGTGCTGTTTTAGAGCCCTGGGAGCGATCTATGTTTAACACCATCTTAC
TAACCATTATTGCTATG

Sequence 2221

NGGCGAATTGGAGCTCCCCGCGGTGGCGGCNCGCCCGGGCAGGTACTTATTTTTATATTA
AGTCAGACTTCAGGATTTATTTTAGCCTTCCTTTTTGAGAAGCTTTCTAAGCCCTCAGCA
TTAAGCAGCATTTTTCTCATCGCACACGGATCTGAGCAGGTGACCGCGGCTGGGATAGG
TCTGTTGTGTTGTGTGCAGGTGGGCTGGCCAGCCGTTGGGTGTGTGTTTTCTTAGAGTA
AGAAGCACTCCAGGCTGAGATGAGAGCTGTTGAAATGAGTAACATTTCCGTCTCCTGTGA
TACGCGCTGCTGTTGCTTCTTTCAAATGATCAGATTTACATTTTAAATGGGTCCTTTA
AAAATGTAATCGAGNGAGAAGGACTTCTAAAGATTTCTTTTGGCCTGGAATCACACNAA

Table 1

GGGGAATTGGAAAATTACTAATTCATGAAAATGAAAATGTGGGCTTCTTTTAAGGAAAAA
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CACTTAACCTCTTGTCACCACTGGAGCATNCTGACTCCCTAGACACAAAGTGATGGAAGTT
ATTTTGTTCCTACTCTTAACACTGTCTCAAGGGGGACATTGATGGGATGGGNGG

Sequence 2222

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGCAACAGAATGAGAAGC
TACAAACAAGAAATGGGAAAACCTCGAAACAGATTTTAAAAGGTCACGGATCGCCTACAGT
GACGAAGTACGGAATGAGCTCCTGGGGGATGATGGGAATTCCTCAGAGAACCAGAGGGCA
CATCTGCTCGATAACACAGAGAGGCTGGAAAGGTCATCTCGGAGACTAGAGGCTGGATAC
CAAATAGCAGTGGAAACCGGTAAGAATTCAGAGTGAGCAAATTGTCTTGCTTATGCAC
AGCAGTCTTCACAACACATGACATTTCAAGGAACTTCAAAGGAGTAGCANAGACAGCAN
CCCAGATGTGGTTTACATATTGGGGAGACAATTGGGAGCTTATTGCGCTTATCTTTTT
TCAAGGT

Sequence 2223

AGGTACACACAAAGACAAACCTGAACTTAATTTCAAGGAAAACCTAAACCCATGCACAAA
TAATTGGTGAGCCTTCATTTCCCTGACTTCAAGTTTCCATGTGAGGACTCATGCTCTCTC
CACTTTCTTCTTGGGAGGAGGGAAGATTTACCTAATGGGTAAATTTGGGCAAAGCACATT
GAGTGTGCTTGTGGCTCTGAGTCTCTTTCGAAACATGTGTCTGCCACAGTAACATGA
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TCTTTCTTTCAACTGCAACTGTGTGGTAAGAGCTTAGTCTGAGAAGAAATGTTCAGAAGC
TCACTGTGGCTGTACCTGCCCCGGGCGGC

Sequence 2224

CTACTATAGGCGNATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACACAAAGACAAAAC
CTGAACCTTAATTTCAAGGAAAACCTAAACCCATGCACAAATAATTGGTGAGCCTTCATTT
CCCTGACTTCAAGTTTCCATGTGAGGACTCATGCTCTCTCCACTTTCTTCTTGGGAGGAG
GGAAGATTTACCTAATGGGTAAATTTGGGCAAAGCACATTGAGTGTGCTTGTGGCTCT
GAGTCTCTTTCGAAACATGTGTCTGCCACAGTAACATGAGTTTGCCTTGACTGTCATGT
CTGCAGGAAGCTGCCTGCTCCTGTGGCCATGTCAAGCAATCTTTCTTTCAACTGCAACT
GTGTGTAAGAGCTTAGTCTGAGAAGAAATGTTCAGAAGCTCACTGTGGCTGTACCTGCC
G

Sequence 2225

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCATGATTAGTTAAATAT
AAGACTCCGTAATTTTACAATTTTAAACAATAATTTATTTCTTCAAGCTTGTTAGTTTG
GGATTGATTAATAAATACTACAGTGTGTGACTTAGAAAATGATAATGCTGCTTTATGGAAAAT
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CCAGTTGAAGTCTAGAAGACAGATGATAGTATCTTAGACTAGGTTGGTATTTGAATAGAT
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AGAACGTTCAAGGGCAGGGGATGAGAAGAAAACAAGAATTTTATGTTGGA

Sequence 2226

AGGTACCCAGCCCCTCCCCTTCTGAGATCTTTCCTGTACACACTCTTCCCCAGCTCTG
CACATTCTGACACTCACCACACCAGCACAGCAGAATCTCAAAAAAAGCCACAGCAGAGG
GCTCCGCTGGTAGAGTTGAAAATTTGGCAAGAGGAAGCCACTCCTCCAGGCCTGGGTCT
CACCTCGGAGACACATCCAGTCTCAGCTCAGCCAGGCGCTGGAAGTGGGTGAGCCAAGC
ACAGACTTCATCCTGTGAAGCCAATGAATGCCACGGCCACCAAGGTTGCTAACTGCAGCT
TGGGAACTGCCACCATCATCAGTGAGAAGTTGAACAATGAGGTCATGATGAAGAAATACA
GCCCCTCGGACCCTGCATTGCA

Sequence 2227

TCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGCAG

TGGGAAGCTCGCAGCAGCTGGGGAGGAGTCAAAGCCTCGGCGCTCACCTAAGCCGCAGGG
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GGATCATTTTTNNCGNAAGGANCAAGGGCTNNANAACCCAGACCTGGACTTTNTTAGGACA
AACTTTACTGCAGCTTGAAGGAGCCAACCATGGATTGGAGCGGTGAAGGAATATTTCT
CCTGGCTCTACTATCAATACCAAATCATTAGCTGCTGTGTTTGAAGGCCCTGGGA
CGCATCTATGTTTAAACCCATCTTTACTAACCANTTATTGCTATTGGGTGGGTATTACCA
CTGCCTATGT

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TCAGCCTTCAACCTTCAAAAAGGGGCCGGGTAAATTACCGGGTTTTANTTNCCACCAA
GGANNATTCCAAGGGGGGNAATTAACCNNNCCAAGGGGAAAANAGGNAANACCCAATT
GGTTTGGGAAGGCCAAAAAAAAGGGGGCCCCAANNCCAAAAAAAAGGGGGCCCCCATG
GGGTAAAAACCNCCGGTTTANAAAAANANANGGGGCCCCCGGCCGGTTNTTGGCCTTG
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TTTGAACCCGGAAGGGCCAANTTCAACCAAAAAAAAATTCCGGGAAACCGGCCNTT
CAAAAAGNTTCCANANNAAGGGGGTGGGGCCGNAAAAAANCCCCCGGAACCAGGG
GGGAACCCTNATTTAAAAAGGGATTTAACCCCAANGGG

TCGACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAAGTGATCC
TCCATCTTAAAGAAGATCAGACAGAGTACGCGGGGTGTTTTAAAAAGAATTTAATTAG
GAAATTTTGATACTCTTCACTACTAGGATTATCCATTGAAATTTATTATTGCTATTACT
TTTAACAGAGTCTCTGTGAGACTGTTTCACAGAAGGATGTGTGTTTACCCAAGGCTGCGC
ATCAAAAAGAAATAGATAAAATAAATGGAAAATTAGAAGGGTCTCCTGTTAAAGATGGTC
CTCTGAAGGCTAACTGCGGAATGAAAGTTTCTATTCCAACATAAGCCTTAGAATTGATGG
ACATGCAAACTTTCAAAGCAGNAGCCTNCCGAGAAGCCATCTGCCCTCGAGCCTGCCATT
GGAAAGTCAAAAAGTCTGTTCC

[illegible]

TACTTAGGCGCAATTGGAGCTCCCCGCGGTGGCGGCCGGGGGCCATTGAGACTGCCATGG
 AAGACTTGAAAGGTCACGTAGCTGAGACTTCTGGAGAGACCATTCAAGGCTTCTGGCTCT
 TGACAAAGATAGACCACTGGAACAATGAGAAGGAGAGAATTCTACTGGTCACAGACAAGA
 CTCTCTTGATCTGCAAAATCCACTTTTCATCACTGAGTTGTGTGCAGCTGCAGCGGATT
 CCTCTGAGCGCTGTCTATCGCATCTGCCTGGGCAAGTTCCACTTCCCTGGGATGTCCCTG
 GACAAGAGACAAGGAGAAGGCCCTTAGGATCTACTGGGGGAGTCCGGAGGAGCAGTCTCTT
 CTGTCCTCCGCTGGAACCCATGGTCCACTGAAGTTCCTTATGCTACTTTCACTGAGCATCCT
 ATGAAATACACCAAGTGAGAAATTCCTTGAAA

TCGACTCCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGTGTCAGGA
GTCCCCAAGCCCACTCCCAAATAGAAAATCACTAAAAGGAGTCAAAGGATTCAGCATA
CAGTAATATTAACAATAAGATTTATTCCAGCAGGATACAAAGCAAAATAAGAAAGGAAA
AGTCGCATGGGGCAAAATCAGGTGAAAGCTTTCCAAGAGTCCTCTCCCAATGGAGTTACA

Table 1

CAGGATGTGCTTAATACCTCCAGCAACCAAGTTGTGACAATACATGCAAAGAGTGCAAAGT
CTTGTCACGACGGATGTTCTTTTTTTTTTTTTTTGAGAAAGCCTTGCTCTGTCAACCCAG
GCTGGAGTGTGGCAGCATNCTGGGTGAAGAGCAAGACTCCGTNTCAAAAAACAAAAGAA
AAGGAAAAGTCCAGTCCTTGCTTCAAATTAATTCCAG

Sequence 2233

NCCGGCCGCCCCGGGCAGGTACNTTATGACCCAACATTTACCTCAAAAGCTNTNAATGACC
TTTGCGGGGAAGTGTCCCCAAGACAACCTNAAAGAGACAGCACAAATTTGCAGCTGTTT
CTCTTTCAGCCCAAGGTCGCAAGGATATAAGAAGCCAATGCAGCTTGGANGGAGAAAGG
GATTCCTGTAAATCACTCACTATGATTTCCACAGCAGGCAAGTGATCCCCTAAAGAAA
GAAGGCTTATAGAGTTCCTCAAAAGAGCTCAGAATTCACAATGATTCTATTACATA
GGCATTCTGTCTTCCAAATTTTAGCTTTAAGAGTCTGAGGAAGTACCTCGAGCGGCCGC
CCGGGCAGGTACTGGAAAACCTCCATCTTGGCTCCCAGAGCTCTAGGAACTCTTCATCAC
AACTAGGATT

Sequence 2234

CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGACCTCTTAGGGA
TCTAAGGAAAAGATTCTGGACCAGAATGGGCCTAGGCTTGAAGTGGATCTCTTCCAAAAG
AATAGTGAATAGTTTTATCTTTCTAAAAGATGGATTGAATGGAATCTTCCATTTGTA
AGTAAGTTCTTGAAGTTTAATTAATTTTGTAACTCTTTTGAGAATTTACCACATGCCA
CTCCTTGAGCTGGGTGCTTACTATGTGTTTATTATTTAACCCTCACAAACCTCAACA
CCCTCATGAAGTAGGTCTATTAGGATCCCTGTTTTGAAGATGAAGTGAAGGCTCATGTT
AGCCCAAGTTCACTGAGCTAGTAACTGGCAAAGTTAGAATCTGAAATGAAATCTGCCTGA
TGTCAGAATGATGTTGTTCAATCATAGGCTGATATTCTT

Sequence 2235

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTT
TTTTTTGAGACAGGATCTTACTTTGTTGCCAGGCTGGAGTGCAGTGTCAAGATCACAG
CTTGCTGCAGTCTCAAGCTTCCANACTCAAGCGATCCTCCCACTTCAGCCTCCAGNGAGT
TGCTTCTCATTTTTCTGNTCCTTNAACCCTTCCCTCTCCACTAGCTGGTTTCCCTCAC
AGGACCAACACNCATGTGCAGTATTTGCTTCCACCTCTTANAGATTTNTCAACTACAAGG
ACTTAGGCAAGGTTTCCCTTTTGACTGGAAGGCTTGAGAAACGTGACAACCCGCCCTTCC
CTAACACTCATGTCACAGCGGTAGCGGACCGTATTCTGGGACAAATGGGAACTCACGACA
TTCCCCCGCGTTACCTGCCCGGGNCGGC

Sequence 2236

CTATCACTACTTAGGGCGAATTGAGCTCCCCGCGGTGGCGGCCGAGGTACTGTGATATC
CACATATTTTGGAGAAAATTCCCAGCCAGGCGAATGTGGATTGGAATAAGACATAGG
CAGTGATACCACCATAGCAATAATGGTTAGTAAGATGGTGTAAACATAGATCGCTCCC
AGGGGCTCTAAAACAGCACAGCAGCTAATGATTTGGTATTGATAGTAGAGCCAGGAGAAA
TATTCCTTACACGCTCAATCCATGGTTGGCTCCTTCAAGCTGCAGTAAGTTTGTCTT
AAGAAAGTCCAGGTCTGGTTCCTCAGCCTTGCTCCTTCGCGAAATGATCCTGTGTGGGT
AGTTCTCCTCTCTGGGTGCTGTTTCTCATCTCCAGTTGGGTGTATCTCCTGCGGCT
TAGGTGAGCGCTGAGGCTTTGCTCCTCC

Sequence 2237

AGGTACGCGGGGAGTCTTGACACCCTAGATCCCAAGATCTCCAAGGATTTTGGTGGGCAT
ACCCACTCCAGCACACAGGAAAGCCATGGAGGGTTTCAATGGAATCTTCCCTTCTTTC
CTTGAACAGCTTCTTGGGCAGGGAAGCCCCCTGGGTCTTGTNNCCTTATTGAATCCCAA
GAAGGGCCCCGCCCTTNTGGCCCCAAGGGAATCGGGGGGGAACCCCCCTTGGCCATTG
AAAGCCATTCAAGCCANGCTTTTAAAAAGGGAAAAAATTGNCCANGTTGGAAAAGAA
CCCCANGGGGGTTTANGCCCCAGAACAGGGGCCACCCAAAAAGCCAAANGGGAAAG
GCCAGGAANGAATCCCCAAGCCCCNTTNTTGGGGAAAAAAGGGCCCTTAAGGAAC
CGGGGAAGNCAAAAAAAGGCNTTGTNTGGGGGGGGGGAACCTTCGGGGAAAAA

Table 1

AAACCTTAGGGGAAAAAAGAATTGGCCAAGGTTTCNGGAAAAAGAATTTCTTANGGAA
AAAAGGCCGNTGGGGTTAAAAANGGGAAGGCCCGTTCCCATTTGGAACCGGTTTTTAAA
AAGAACCGGTTTCCCTTTTGACCTTCAAGTTANCCCTTGGCCCCNNGG

Sequence 2238

ACGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCG
GGGGCAGTGGGAAGCTCGCAGCAGCTGGGGAGGAGCCAAAGLCTCGGCGCTCACCTAAGC
CGCAGGGAGATACACCCAACCGGGAGATGAGGAAACAGCAACCCAGAGAGGAGAACTAAC
CCACACAGGATCATTTGCGGAAGGAGCAAGGCTGAAGAACCAGACCTGGACTTTCTTAGG
ACAAACTTACTGCAGCTTGAAGGAGCCAACCATGGATTTGAGGCGTGTGAAGGAATATTT
CTCCTGGCTCTACTATCAATACCAATCATTAGCTGCTGTGCTGTTTTAGAGCCCTGGGA
GCGATCTATGTTTAAACACCATCTTACTAACCATATTGCTATGGGTGGTATACACTGCCT
ATGTCTTTATTCCAATCCACATTCGCCTGGCTTGGGA

Sequence 2239

CCGCGGTGGCCGCTACCTCGGCCTCCCAAAGTGCCGGGACTACAGGCATGAGCCACTGC
GCGCAGCCCCACTTGCCCAATTCTTGACCATCATTTATTGAGCTAAATCCAAAAAGGAAA
CTCTACCACTGACTCTTTCTTTCTCATGGCCTCCAAATGAATCCTAGGTTTTTCCAGC
AGGGTAAATTCAAAGGACTCAGGTTGGAATTGACTTCTTGGTTAAAAAAGTA
TAAACAGAAGGTCTTTTTAGAAATGAGGTTTATTTCAAGGCTACTCAGTCTAAAGC
CTGCATATTTACTTTTTTCTTCTCCAGCCCCGCGTACCT

Sequence 2240

NTGGCGGCCGCCCGGGCAGGTACGCGGGGTTTGTAGATGGAAGGAAGAACTTNTGTGCT
TAGACCTGACGCTGGGAGGAGATGCTGCCACCTAGGTTACTTGTAGGACCCTATACGGCA
ACCTCCTTTGCCAGGAATTTATAAACATCCTGCAGGAAATGAGTCTATATGTCAGA
ATACACATTTTCCACCTTGCCCAACAGTAGAAAAACATAAGAAGAGAAAAACATTAAAA
AATGACAAAGGAAGTTAATGGAAGTCAGCAATGTGATGGTGTGGAGGTGGAGCCTTCAG
AAGGTAATTAATGCCCTTGAAGAAGAGGCCANAGAGCTTGCGCACCTTCTCCTACCAT
GTGAGGAGCCAAGAAGCCGGCTGTNTGCAACCTGNAAGAGGACCCTNACTAGAAGCTAGC
CATACTGGCATCCTCATCTTGGCTTCC

Sequence 2241

GGCCGCCCGGGCAGGTCCCTCGGGAGATCAGGACTCTTACAGCCAGTCATTGAAGTCTCCT
TTAAATGAGATGTCTGATGATGATGACNATGATGATAGCAGTGACTAAGGACACATTTGG
GAGTATTTAATCAGGTGTGGCTATCCGAGAAATCACTTTGGGGAAATGTAANATTCG
AGCTCTCTGTTTNGTTCTAGCCATGAATTTGCCTGACAACTTGTAACCTATGTGCCTCA
ATATATTCATAGAAAGTAGGTCCCTGCTTCTCCCACTCCTCACACTCTTCTACAGG
GATAGGCTTTTGCAAATATATCAGATAAATTTTTGTTTCTTGTATTTTATAGGTATT
TTCTTGGAAGGTTGGGAAAGATGTTTGTTTTAAACAGATCATGTACCTC

Sequence 2242

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTCTTAAGTATCAATGAGTTAAT
TTTAAAGGTAATAAACTGTAACCTGTTTTNTTCAAACTGCTTTTAAATGTTGCTAATT
CTATTCCTGCACACTAACTGAACAAGGATGCTGGCAATGATAACTGTAAGACAGAGAAAT
GACATGATTCTGAGCTGCATTTTANAAAGATTACTTTGGCAGCCAGGCNTTATACTGAT
TAGATGACAGAAAGACCAGAGAANCNCAAAAGATAACGGATGGGTCTTCGGNTTAAATACC
GGGGTGACNAAATAATNTGTACAACAACCCCCGTGACACAAGTTTACTTATGTAATGAA
CCTTCACACNCNCCCCGGAACCTAAAATAAAAGTTAAAAAAGGAAGAAGATGGAA
AGACCAGAGGAGGGAGGC

Sequence 2243

GGCGAATTGTTTTCCNCCGNGGTNGCGGCCGCCCGGGCAGGTACNNTGATTAGTTAAATN
TAAGACTCCGTANTTTTTACAATTTTAAACAATAATTTTATTTCTTCAAGCTTGTTAGTTT
GGGATTGTATTAATACTACAGTGTGTGACTTAGAAAATGATAATGCTGCTTATGAAAA

Table 1

TGGATTATAGGTGGGTAAGACTTCATTGCAAAAATTGTGTAATACCATCAGTGTTAGGAA
CCCAGTTGAAGTCTAGAAGACAGATGATAGTATCTTAGACTAGGTTGGTATTTGAATAGA
TATTGGTAATATCAGTAGAATTTAATAATACATTAGTAAGAAAGAAATCAGAGAAGATTC
TTTTATTTTCACTTGATACTTGTGTTGTTACTTTCAATGAGATAAGAAAGACAGGCAAAG
GAGAACGTTGAGGGCAGGGGATGAGAAGAAAACAAGAATTTTATGT

Sequence 2244

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTT
TTTTTTTTTGGAGGCAGGAGGATCACTTGAACCTGGTAGGCCAAGGCTGTAGGGACCTGA
GATTATACCACTGCACTCCAGCCTGAGCAACAGAGGGGAGACTCTGTCTCAAAAAAAGAAA
AGAAAACAAAACAAAACAGAAAACCTAGAGTTTAAATCACACTTAATAAAGACTAAATAC
ATTTCTCTCAAAATCAGGAAAAATATATGGTTGTTACTTCTTTATTCAACTTTGTATTTG
TGGTCATGGCCAATGCAATATGACATGAAAGGAAATAATATATATAAAGAAAGTAGTAA
ACAATATTTATTTATAGACTACATGAGCATGTACCT

Sequence 2245

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGATATTTGTGA
AGTATCTCCTGGACCCCACTTGAATATGATCGTTGGAGCCAATGGAACAGGGGAAGTCGAG
CATTGTGTGTGCCATTTGCCCTTGGTTAGCTGGAACCTGCTTTTCATGGGACGAGCAGA
TAAGGTTGGGTTTTTTGTGAAGAGAGGATGTTCTAGAAGGCATGGTTGAAATTGAATTGT
TCAGGGCTTCTGGAATCTTGTAAATCACCCGTGAGATTGATGTGGCAAAAAATCAGTCCT
TTTGGTTCATCAACAAAAATCTACAACCCAGAAAATAGTGGAAGAGAAAGTTGCAGCCT
TAAATATTCAGTGGGGAATCTTGGCAGTTTCTCCCTCAGGACAAAGTTGGAGAATTTG
CTAAACTCAGCAAAATTGAACTCCTCGAAGCCACTGAAAAGTCAATTGGTCCCCCAGAAA
T

Sequence 2246

CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGAACAAACCCACACTATCTCTGAGG
TGTGCTTGTAAGTTTTTTGTTTGTAACTTTGCCCTTACTGCACTCCTGCCCTTGCAGACAGAG
CAAGACTCCATCAAAAAAAAAAATGTAATTTAAAGATTAAAAATTAAGATAGATTTTTA
CAAATGTATATATCTACCATTATAGTATCATACAGAATGGTTTTACTGCCGTGAAGTTTC
TCTGTGCTCTGTGTATCCATCTCTTCCCTCCCTTGGTCCATGGCAACCACTGATCTTTC
TACTGATCCCATAGTTTCACCGTTTCCAGAACGTCATATAATTGGAATCGAACAGTATAT
AGACTTTTCGGATTGGCTTCTTCTTTTACCAATATGCATTTAAGTTTCCTCCATGTATT
TTTTGTGGCTTGATAGTTCATCTCCTGTTAGCAGTGAA

Sequence 2247

NGCCGAGGTACTTCCGAAGATGGGCTTGTATCTGGTTTCGGACGGAAGTGAATGACAAT
TTGATCGACGGGAATTGCACACCCAGAAATCCACCACAAAAGAAAAGGTTACAAATTTA
ACAATTTATAGTCCTTTTAATAGATTTCTNTTTNTTTNTTCATAAATACAC

Sequence 2248

CGACTNCTTAGGGCGAATTGGAGCTCACCGCGGTGGCGGCTAACTCTGGGTCTTCACCTG
CATTTTCTTTTGGAGCTGCTGATGCTTCATGGCAAGGGTTCCCGATCCTGGGGCAGAGG
CGGCCTCTGGATCATAGGCACAGACCAGGGCTCCTGCCAGAGCTGTCAAGGAAGAGGAGAG
TCATGAACCTCATGCTTCTGTGTGCTGGAGTGGGTATGCCACCAATCCTTGGAGATCTT
GGGATCTAGGGTGTCCCGGTACGCGGGGACCTCATTTCTACCGGTCTCTAGTAGT
GCAGCTTCGGCTGGTGTATCGGTGTCCTTCCCTCCGCTGCCGCCCGGCAAGGCTTCGCC
GTCATCGAGGCCATTTCCAGCGACTTGTGCGACGCTTTCTATATACTTCGTTCCCCGCC
AACCGCAACCATTTGACGCCATGTCGGGTATTTCGAGTGACCGAGACCGCGGGCGCTCTAG
AAC

Sequence 2249

GTCCCCGGCCGCCCGGGCAGGTACNTATTGTGTCCACTGTAAAGGTAAATGATTTNTTTT
TATATTGCATCAAACTTGAACATCAAGGCATCCAAAACACTAAGAATTCTATCATCACA

Table 1

AAAATAATTCGTCTTTCTAGGTTATGAAGAGATAATTATTTGTCTGGTAAGCATTTTTAT
AAACCCACTCATTTTATATTTAGAAAAATCCTAAATGTGTGGTGAAGTCTTTGTAGTGAA
CTTTCATATACTATAAACTAGTTGTGAGATAACATTCTGGTAGCTCAGTTAATAAAACAA
TTTCAGAATTAAGAAATTTCTATGCAAGGTTTACTTCTCAGATGAACAGTAGGACTTT
GTAGTTTTATTTCCACTAAGTGAAAAAAGAACTGTGTTTTAACTGTAGGAGAATTTAA
TAAATCAGCAAGGGTATTTTAGCTAATAGAATAAA

Sequence 2250

CTACTTAGGGCGAATTGGAGCTCNC CGCGGTGGCGGCCGAGGTACGCGGGGACCTCAGAG
CTGAGCTGGGCATGAGTAGATGCTCAGTAAGTGGTGCACAGGGTTGGTCCCTATGGTGGA
GGCCCCCTAACACCGCCCAACCCCCCTCCATGTTCTCACAGCTCCACGCACTGAGCACGG
GCATGAAGGCCATGATGTCAGAATTCTGGCACCCAGGGAGCTGAGATGTGCCGACAGGGCC
TGTGGCGGACATGGCTACTCAAAGCTGAGTGGCCTGCCATCACTGGTCACCAAATTGTG
GCCTCCTGTACCTGCCCCG

Sequence 2251

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTGCCTTCTNGGGAAGTGTGGGAA
CGCACTTAAGGTGTTTGTAGACACTGCCCTCTTAGAGCCTGAAATGCCACAATTTAAG
CTCTAAGCCTTTTGTCTCTGAGTGTCTCTANAAAAGATAACATCTTCAACCCTTTTG
GTTTTAGGGATTCTNTGCCAGTAGCCCTGGGGGTGAAAGGAGGTCAGCAAAGGGACTTG
CCGGATGTCCGAGTAGGAANAANATTGCTNTAAGGAGTCCAATCCAAACCTCACTCATT
CACAAATTTACCGGAGGCTCCTNTTGCTNTCCCCAGG

Sequence 2252

TNGGGCGAATTGTTNCTCCACCGCGGTGGCCCGCCCGGGCAGGTACACACAAAGACAAAC
CTGAACCTTAATTTCAANGAAACTTAAACCCATGCACAAATAATTGGTGAGCCTTCATT
CCCTGACTTCAAGTTTCCATGTGAGGACTCATGCTCTCTCCACTTTCTTCTTGGGAGGAG
GGAAGATTTACCTAATGGGTAAATTTGGGCAAAGCACATTGAGTGTGCTTGTGGCTCT
GAGTCTCTTTGCAAACATGTGTCTGCCACAGTGACATGAGTTTGCCTTGACTGTCATGT
CTGCAGGAAGCTGCCTGCTCCTGTGGCCATCCCGCGTACCTN

Sequence 2253

GGAGGCTATGCAGATATATTCTTTTCTCTTTAAAGTTTTGCCACCAAGTTTTAGAATTCA
TCAGTAAATCTTGTCTACAGTAATTATTACTATTTGCTATTCTAATGGGAATTTGTATA
TCTCCATCCCTTCTAATATATTTAACAACGAATTCTATAAACAAGATTTGTTTCTTCTC
CACATTATTTATTTATCAATACAGACACATACTTTGGGGGTATAATCCAATACTATTG
TTATTTATTATGTNGTTCATATTGTCTAGCTTTGGCTACTGGGATCTTTATAAGTGTN
TTCGTGNCCCTTTGACATGCCCATTTTTTCTTTTTAAGCACATCTTTACTTTCTGAG
ACTACAAGATTGTCCAGGTTCTCATCTTGTGTTTTCCCTTCCCTAGCCTTGGAAATGAGCT
GNTTTTCCAATGATCTCTAGTTCCCTTATTAGAAAATGGTGGCCAACATGGTGAAACCCC
ATCTACTAAAAATACCAAAA

Sequence 2254

CTATAGGGCGAATNGGAGCTCCCCGCGGTGGCGGCCGAGGTACATTTCTTCTAATTGATC
ATATCTGCTTATTTTCTCTGGATTAAAGGATCAAGGAGATAGTATATTAGATGATTTGAT
AAATTTCCAATGCTTTGCAAAGTAGTTGAACAACCTTTTTCTTTGTGATGCTAGGTGGCAC
TACTAGTCAAGACTTGGTATTTATAGCTGGCTTTCTTATTCTGAAGGTTGTAAGGAC
ATATGAAGTAATATTTAACATTGAAAACATGATAATCAATTTGATTATCTATGAATTGTC
CTAAACGTTTCAAGTAAAGTTTCTTTAAAGTTAAATCTTTCAAGTGAAGGAAATTATA
AAGTCACATGTAAACACCAAAATAAGAGGAATAGAGCAATAGGATATTTTGGCTTTATA
ATTCAATTTAAAAATTAAGGTGCATTTATTTTTTTGGCAGCTGGCCATAAGCTTCAATG
TCCAGTAAGCAGTTGCTATCTATGATTCATGAGATCATGGGGTT

Sequence 2255

CCGCGGTGGCGGCCGAGGTACGCGGGGGACANGGCCATCTCGCTATAGGAAAGGAAAGTG

Table 1

GAACAGCATTCACTCCTCAACATTTTTACGAAGACAAAATGAAGACTGGAGTAGAAGACTG
ATCAGTGCAGGTGTAGCATAAAAGTGTAATCCTGGAAGATGTGGTGTGAGAAAGCATTAT
CANCAATNATGCNTNTTNCCAATCCCAAACCATGGGGGGTTTCTCACAGCTTTACACCAA
AGGGCATCACTATCCCTCAAAGAGAGAAACCTGGACACATGTACCTTGCCCC

Sequence 2256

CCGCGGTGGCGGCCGAGGTACACACTTGTGTGCATTTCTGTTGGGTATATAACAAGTATG
AAATTGCTGGGTCTTAAATATTTATATATTAACCTTCATTAAATGCTGCCTAAGAATTTT
TCAAGCGGTTGTGCTATTTTACCTTCACCAAGTTCTAGTTGTTCCATATCCTTGCTGTCAC
TTGGCATTAACTCTGAATTTTTTATTTTGACCAGACTGGTCTGTGTGCATAGTATCCCAT
TGTCATTTTAAAGTTGCATGCCCTTGATGAAGACATTTTCTGATGCTTAATTGGCTCTTTG
AATATATCCTGTAAGTATTTGTAGGGAGNTTTTATATATATTCTGGATATAANTNTTTT
TATNTGGACATAAATATTTGCGCAGATTATCTNCTCCCACTTTTAACTTCCCTTTTTTC

Sequence 2257

GATCCTATATGGCGNNTAGGGGCTCCACCCGCGGTGGNGGCCGCCCGGGCAGGTACGCGG
GGGGAGCGGCCAACATGGCGGAACGCAGGAGACACAAGAAGCGGATCCAGGAAGTTGGTT
GAACCACCTAAAGAAGAGAAGGCTGTGGCCAAGTATNTTCGATTCAACTGTCCAACAAAG
TCCACCAATATGATGGGNCACCNNGTNTGATTATTTTATTTGCTTTCAAAAAGCAGNTG
NGACTTGTCTTTTTGGAATTCAAAAAGATGGGGNCAAAAGGCTCAAAATATAATGGTAGT
AGNGAAGCCTTTTATTTTACCAAACCAAGGGGGAGGTCTGTTGGGTTTGGACTTACCT
GGCAAACCAGGCCTTTTTAAAGGAAAGGCAGTTTTTTTTTACCNGGAGGCNCCTTA
AAAAAGTTAAANTGNAAAAAATTGGAANATTAATTGGTTATNTATGGACCATATATNGA
GNACATATANTNCATNTAATTNAANAAAAAAGGGTACCCCTTTCGGGTCNCCGCNTTNC
TAANGAAAACCTANNTTNGGGGGATTNCCCCCN

Sequence 2258

CCGGGCAGGTACCCGGGAGGCTCGCATGTGTGGGTGCATGCCGTGGCAGGAGAAGGCTTC
CGAAGAGCCATGCATGCGTCCTCTGGCTGCTCCAGGTGTAAAAATGCCAGGGAGGGGAC
AATGATGAGTCCTAGGCAGGAAAGGTCTCTGGAGAGAGGAAATGGCACACGCGCAAGCA
CGGAGGCATGAGGGGCCAGGGTCTGGAGGACACTGGGCCGGGACAGATCAGACTCCCCC
GCGTACCT

Sequence 2259

CCGCGGTGGCGGCCGCCCGGGCAGGTACATCTTTAGAGAGTAGAGATACATCTGCATATA
AAAAAAAATCTGCCGTAAGTGATAGAGTTGAAAATAATGTCCTACATACCAGAATGTTCT
TTCTGAATTAGGCATCATGTAGGTATTCAGCATTCCTTCCATTTCCAAATTGCTCCCACT
CCCTGTTTTTTCATCATCCCCCTTTTTCTCATTAGCTCATTGGAAATAAAAGATTTT
TATTTTATTTTCATTTTTTTTTTCTGCAGAAGAAGCCACATATGTATGGAGATTTAGGC
AATGATTTCTCAAGGAAAAAATGTTTTAAAGTACAGCATGGCTGGTGGTTTCAAAAAAC
GTAGTCATTCTCTCACTGCAACCAATGTAAGATAAGCAGGGTAGATCTGTTATTTCCAA
ATTAAGGTGGATTAAGATATATGGAGAGAGAACATGGCATGTGAGGTTTATAGGGCTAG
AACTG

Sequence 2260

GCGAATTGGAGCTCCCCGCGGTGGCTNAAACATCTTTTTCTTCTTAGTCCCAGGTTGTTCT
TCATTCGTGGCTGGATCACACCAGCAAGAAGGATTTTAAAGGACAACCTCCTGGGGCCGT
CCAACACTGAAACCGCCTGACCGCTGCTGTCTTTGTGCTTGCAGAAAATCACGTGGCCCC
GGAGAGGGTCAGCGANGGGCCTCCACTGTCTGAGTCCGCTCCTGGCAACGCCTGCTCTCT
GCACTCAGAGGCCCGGTCCCGGCAAGCTGCCACGTTGCTCAGAAGTTCTGGCAGGGGGAG
CCTGAAACCCCTGTCTGCTGCGGACACTCCCGGAGCAGCAGGAAATCTCTACATTTTATT
TTTTTCTTAACAGACAAAAGTATTTGACTCCAGAATGATTTCCAGGAATTACAGTATGA
GAACTTAGTCTTTGAGATTTTATTTTCTTCTTAAAAAATAAAAATGAAAT

Sequence 2261

Table 1

CCGCGGTGGCGGCCGAGGTACGCTTTGACGACACTCTCAGACATGCTGTGCAACTTAACG
TCACTGCCACCCGGCAGCTCTTGCTTATGGCTAGTCAGATGCCAAAGCTGGAAGCCTTTA
TACATATCTCTACTGCCTATCCAAATTGTAACCTGAAGCACATCGATGAAGTTATCTATT
CCNGCCCTGGNNGGACCCAAAAAATCATNGATTCCCTTGAGTGGTTAGACGATGCTATT
ATTGACGAGATTACACCCAAGCTGATCAGAGATTGGCCCAATATTTATACCTACACCAAG
GCCTTGGAAGAAATGGTGGTGCAGCAAGAGAGCAGGAACCTGAACATTGCCATCATAAGG
CCCTCCATTGTGGGAGCAACTTGGCAGGAGCCTTTCCAGGTTGGGTTGATAATATAAAT
GGACCTAATGGAATCATTATTGCGACTGGGAAAGGGTTTCTTCGGGCCATAAAAAGCTAC
TCCAATG

Sequence 2262

CGAGGTACGCGGGGAGATGCTGCCACCTAGGTTACTTGTAGGACCCTATACGGCAACCT
CCTTTGCCAGGAACCTATTTATAAACATCCTGCAGGAAAATGAGTCTATATGTCAGAATAC
ACATTTCCACCTTGCCCAACAGTAGAAAAACATAAGAAGAGAAAAACATTAAAAATGA
CAAGGAAGTTAATGGAAGTCAGCAATGTGATGGTGTGGAGGTGGAGCCTTCAGAAGGT
AATTAATGCCCTTGTAAGAAGAGGCCAGAGAGCTTGCGCACCTTCTTCTGCCATGTGAG
GAGCCAAGAAGCCGGCTGTCTGCAACCTGCAAGAGGACCCTCACTAGAAGCTAGCCATAC
TGGCATCCTCATCTTGGCTTTCCAACCTCCAGAACTGTGAGAAGTATATGTTTGTGGTTT
AGTCAATGGTCTATGGTAATTTTTTATAGCAGTCCCAGCCAAGACAGTGCCTCATTTAC
TACATACCATTTATATTATTATAGGCTCCTTTAGAAACCCATGTTCAAATAAGAGAT
AAGATACTGAAACACATAACACCTTCACCTAGTTTTTAGTATACAAATATTGAGAAATAGT
TTGGTATTAATCTCATNCAAGAAATGCAGATTCATGTTGGTTCTAATTTTTATTATA
TAAATGACAAAATGNAGAACTTAACACCATCCTAGATTTTAGCTGCCCCNG

Sequence 2263

CCGCGGTGGCGGCCGAGGTACCTTAGATTTCTATGGGACATCGTTTAAAACTATTGTTT
ACGCGAGAGCCTTGCTAATTTCTAAAAATTTGTGGATACATTTTTCTCCCATGTATAAT
TTTCTCACCTTCTATTTAAAAAGAAAAAAGTCAGTGTAGTATTACATATTTTACC
CTATAAGGAGCTAACATAACTTTTGATTTAGTGTTATTCATAAAATTAGGTTAGCAGTTT
ATTAACCTTTTGTATTTGCTCTGGCAATGTTTAAATATCTCATAAGCTATACACACCTCGA
AGCCATCAATGACAACCTTTTCTTGCTGAATAGAACAGTGATTGATGTCATGAAGACAAT
TTTATCTCCTTTGCCTTCCATAATTTGTACCTGCCCCG

Sequence 2264

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTIONNNTTTTTT
TTTTTTTTTTTTTTTGGGAATCTAAACCAAAACAAACATGATAATTTAGAAGAGATTA
ACTNGATTTTTTCTTCATCGGCAAGCAGACTCTGACTTACCCACCTTTCCCACTATTTT
TTTGAGTAAGGATTTGAATAATTTAAGCCTTCACATTNGGAATTTTATCTCTTTAATCT
TTGNAAATATTATGAGTAAAAATCAGGAAATGCCTCACTGGTNCCCTTGGTTTCTCAGAC
AACTCACTGATTTATGGTCTTGAGACCATAACTCA

Sequence 2265

CCGCGGTGGCGGCCCGAGGTACAGGAGGGAACCAGGCGCTACAGACTGTGTAATGAGTGT
CTTGCAGAATTTGGCATAGACAACCTCCCCATTGACTTGGAAGCTGAACAACATCTTATG
TCCCCATCAGATGGAGATAAGGATTCCAGATGGCACTTGAGTGAAGATGGGAATAGATCC
TATGTGGAGATTGTAGAAGATGGGTCTGCTGATCTGGTCATCCAACAGGTTGATGATAGT
GAAGAAAAAAAAAAAAAAAAAAGGTACCTGCCCCG

Sequence 2266

CGCCCCGGCAGGTACGCGGGATTGACATTGCAAGAAGCAAATGTTACCTCTAATAGCGTG
GTCCAAAATAATGTCTATTTACATTCTCAGAGCACTTTGTCAAGGTTATTCAGTTGAAGG
CTGTAACACTCTCAGGAGTTAATCAAGAGCAATGGCATCTATGTTTATTAGTGAAGGGAA
GACTTACTTGACCTACTGCATATCTGAGTTTACTGAGCTCAAACCTGGAATTTAGGAAGC
CAAAAAAAAAAAAAAAAAAGAAAAAGAAAGACAGTGTAGACAGAGGCAAGAAAGTAGAGTGAT

Table 1

TGCATTTGGGCATCTGAATGACCCATCTTGAATCACAGCTCAGTCACTGGCTGTATGCC
TTGAGAATGTTTCTTCTCTGTTCTGAGCCGCTGGTTCCTTATTTATGAGATAAATGAGGA
ACTGTGCTGCACGCAGTTGGTTGGAGCCTGAAATGAGATAATGGATGTTGTCCTAGTTAG
AAGATGAGTAATTTTAGGGCCGGATGTGTTGGCTCACGCCTGTAATCCCACCAAGTTTGG
GAGGCCAAGGGTGGGCTGATCACAAGGTCAGGAGATCAAGACCCGTCCTGTTTAACACGG
GGAAACCCATTCTTTACCAAAAAATACAAAAATTAGCCANGNCTTGGTGGCGGGTTCCT
GTAGTCCCACTACTTAAGGAGCTGAGGCAGGAAAATGGGTGTGAACCCTGGGANGCCGG
ACCTTGCCAGTGGNGCTGANATTGGCACCAANTGGCCTTCAACCCTGGGCGANAGANACG
AGGACTNTGTCTTCCAAAAA

Sequence 2267

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGGAGGGAACCAGG
CGCTACAGACTGTGTAATGAGTGTCTTGCAATTTGGCATAGACAGCCTCCCCATTGAC
TTGGAAGCTGAACAACATCTTATGTCCCATCAGATGGAGATAAGGATTCCAGATGGCAC
TTGAGTGAAGATGGGAATAGATCCTATGTGGGAGATTGTAGAAGATGGGTCTGCTGATCT
GGTCATCCAACAGGTTGATGATAGTGAAGAAAAAAAAAAAAAAAAANGTNCCTGCC
CG

Sequence 2268

CGAGGTACGCGGGGAGCGGTGAGTGATCCTTTAGCAAAGTCAGTCCTGGGCAGGAGAC
GGCTTCAGGAATACTGTCAGCTTTACTGGATTCCACCATCGCTTTCAGGACTGTTTAGG
CCCTGGGCCCTTGAAGGGTTTGCCTGCTCTTGTCTCCATTACATCTCAAGAACTTTGT
TCATGTTAATTTTTTCACTCTATCATATGGAATTGAGCAAAAAAAAAAAAAAAAAA
AAGGTACCTGCCCC

Sequence 2269

CCGCGGTGGCGGCCGAGGTACCCTGCTGAAAGATTATTTCTAACAGGCTTGTAGAGAAA
CGTCGGTTCATGTAAATTAGAAATTATGGGGCCACTTTGCCATTCTTCACACCTGCAATG
AACAGGTGTTTATCTGCAGTTCTGACTTATCTTTGAACTCCATTGTCATGTTATAGTGG
GATGCAGCTGATGCCCTGTCCAGATCTTCTTCAAGCCACTACATCTATATGCATTCAT
ATTCCAGTGGCTGTGAGTGTGGCTGTTGGTTGACAGAGGAGCTGCATCCTCCTGGAGGA
AACTGAACTCAGCTGATGAAAGCCACCTGGTCCCTGGAGGTGAAGCATCTTCCAAATGACA
GCCTGCAGTCAATGACTGATGAATATGACTTCATTGCCTCATGACAGGACCTACTCTGGG
GTATAGATCATGCTTCTAAGCTCCTCCTGGGGTCTGCTGAGGCTCAATGCCAGCTGAAA
CCATACCCTTGCTCACATACTTTCCCTTCTCTTCCCTTCTTCCCTTGCTTCTTAGAGAT
TCCTCCTGCAATGGCTTCTCAAAAAAGCATTTTCATAAGCAACCTCATGTGAGCCTCTG
CTTTCACAGAAGCCAATCTGANGTTAACAAGCTTGTTTAACTTAGCATGTCCAACATAAA
ATTCTTGGTTTCTTCTCATCCCCTGCCC

Sequence 2270

ACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGTAGATG
GAAGGAAGAACTTGTGTGCTTAGACCTGACGCTGGGAGGAGATGCTGCCACCTAGGTTAC
TTGTAGGACCCTATACGGCAACCTCCTTTGCCAGGAACTATTTATAAACATCCTGCAGGA
AAATGCAGTGAAGTAGAAGAGACAGGGATATCCCAGAAGGTTATGCAAAACATCAAGAGA
AGATGAGAGGTCAGAGATGGGAAGAAACAAGAACTTTGACATGCTTGGTGTCTTGCCCA
AGCTTTGAAGAAGTTTACAAAGTCTATATGTCAGAATACACATTTCCACCTTGCCCAAC
AGTAGAAAAACATATGAAGAGAAAAACATTAATAAATGACAAGGAAGTTAATGGAAGTCA
GCAATGTGATGGTGTGGAGGTGGAGCCTTCAGAAGGTAATTAATGCCCTTGTAAAGAG
AGGCCAGAGAGCTTGCGCACCTTCTCCTGCCATGTGAGGAGCCAAGAAG

Sequence 2271

ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGATGATTTT
TTATTTTAAATAATCTGGAAGTAATGGGAACCTAGTTTTCTGAACTCCAACCAGAAT
CCAAATTGGTTAGATGAGGCCGGCGCGGTGGCTCACGCCTGTAATCCCGGCACTTTGGG

Table 1

AGGCCGAGGTGGGTGGATCACCTGAGGTCAGGAGTTCAAGACCAGCCTGGCCAACATGGT
GAAACCCCATCTCTACTAAAAATACAAAATTAGCCAGGTGTGGTGGCGCCTGGTTGAGG
CATGAGAATCGCTTGAACCCAGGAGGTGGAGGTTGCAGTGAGCCAAGATCATGCCTACTG
CACTCCAGCCTGGGCAACAAAGTGGGACTNTGTCTTAAAAAAAAAAAAAAAAAATAATCGGT
TAGATGANGAAAGCATGTATATTTCTATATACCAAAAAAC

Sequence 2272

CTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACGCGGGTGCCCAGGTCTG
GCATCCTGCACCTTGCTGCCCTCTGACACCTGGGAAGATGGCCGGCCCGTGGACCTTCACC
CTTCTCTGTGGTTTGCTGGCAGCCACCTTGATCCAAGCCACCCTCAGTCCCAGTGCAGTT
CTCATCCTCGGCCAAAAAGTCATCAAAGAAAAGCTGACACAGGAGCTGAAGGACCACAAC
GCCACCAGCATCCTGCAGCAACTGCCGCTGCTCAGTGCCATGCGGGAAAAGCCAGCCGGA
GGCATCCCTGTGCTGGGCAGCCTGGTGAACACCGTCCTGAAGCACGTCTCTGGCTGAAG
GTCATCACAGCTAACATCCTCCAGCTGCAGGTTGAAGCCCTCGGCAATGACCAGGAGCT
GCTAGTCAANATCCCCCTGGACATGGGTGGCTGGATTCAAAC

Sequence 2273

CCGCGGTGGCGGCCGAGGTACGCGGGGGCATTGTTGGAAGTTTACTCTGGTTAAAGGATA
GAGAAAAAATGGAAGAGGAGGGTAATCACAACAGTCTAGGCAAGAGATGATGGTAGTT
TGGAGACAGAAGGTGTGGCAGTGGACATGAAGATAAGTGGATGGATTTGAGAGAACTTG
GAGAGTGAAACTGCATGGATAGTGATGGATCAATGACAGTAGACTGGGATGAATGGAAGT
ACCTGCCCG

Sequence 2274

CTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTT
TTTTTTTTTTTTTTGAAANGTTAAAAATTTTAAATTTAATAACTTGAATATACATCTG
CTTTGAAATAGGACATAAAGTCATACAGTATTTTACATAATTTTCTTGCTTTTCAATAA
TAGTATGCAACTCATAAAGAAATAAAGATCTAAGGAGCNCAGATNCATGTATGTGATT
TAAAAGAAGCATTTCAAATAAACAGGAAAAAATTACTCTCTTATTTTCATACCGTATCTA
TTGNCTTCATCATAACAGAAATCTATAATAAAGAACTAGAGCTNTCACAGCACCTNTC
ATNTGCTGACACTGNGTTAAACACTNTACATCCATCACCTCCTNTAATC

Sequence 2275

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGCAGTGG
GAAGCTCGCAGCAGCTGGGGAGGAGCCAAAGCCTCGGCGCTCACCTAAGCCGCAGGGAGA
TACACCCAACTGGGAGATGAGGAAACAGCAACCCAGAGAGGAGAACTAACCCACACAGGA
TCATTTGCGGAAGGAGCAAGGCTGAAGAACCAGACCTGGACTTTCTTAGGACAAACTTAC
TGCAGCTTGAAGGAGCCAACCATGGATTTGAGGCGTGTGAAGGAATATTTCTCCTGGCTC
TACTATCAATACCAAATCATTAGCTGCTGTGCTGTTTTAGAGCCCTGGGAGCGATCTATG
TTTAACACCATCTTACTAACCATTATTGCTATGGTGGTATACACTGCCATGTCTTTATT
CCAATCCACATTCGCCTGGCTTGGGAATTTTCTCAA

Sequence 2276

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTAGACGGGGCTGTAAT
CTGGTAAGTGTATGTTTTAGTTCTTCAGTCCCTGGGAAGGAGACAGGAGAAGGTGGGA
GGGAGGAAGGGGCCAGCTGAAATGGAAACAGATCCCTGATCCGGGGCGGTGAGTGGAAAC
CTTCTTGGTGTGCGAGAGCCTGTGCATTTAGAGGCAGCAAAAAAGTTAAAAAAAAAAAA
AAAAATTGATCTTTGTTTAGATTAAACAGACCCCTGACTATGAANAAGGAAGGCATCCAGA
CCAGAAACCGAAAAATGTCTAGCAATCCAAAAAGTGCAAAAAAGTGATGACTCACTTG
GAGGACTTCCCCAAGAACAGCTCGTTTAACC

Sequence 2277

ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGGGGCGGAGGTACTGTTGC
AGTGAGCTCAAGTGTTGGGTGTATCAGCTCAAAACACCATGTGATGCCAATCATCTCCAC
AGGAGCAATTTGTTTACCTTTTTTTCTGATGCTTTACTAACTTCATCTTTAGATTAA

Table 1

ATCATTAGTAGATCCTAGAGGAGCCAGTTTCAGAAAAATAGATTCTAGTTCAGCACCCAC
CCGTAGTTGTGCATTGAAATAATTATCATTATGATTATGTATCAGAGCTTCTGGTTTTCT
CATTCTTTATTCATTTATTCAACAACCACGTGACAAACACTGGAATTACAGGATGAAGAT
GAGATAATCCGCTCCTTGCCAGTGTTATACTATTATATAACCTGAAAAACAAACAGGTN
ATTTTCACACCNAAGTAATAGATATCATGACACATTTAAATAGG

Sequence 2278

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCATGAGAGACAAAGCTGAGAAGTGTGGTG
GAAAAGGAAGAGAGAGCTGAGGCAGACGATGTAAGATCTGCTGTTACTTCTTGCTGTGTG
ACCTTGGGGTGAAGCAGCAAGAANGCCCTTGCTAGATGAGGCTNCTCAACTGTAGACTNC
CCAGCCTCCANAACGTGTGAAGNGAAGTGGGTGTGCCTGGGATCNNACACAGCTGCTAAAA
GAAGGNCTNAAGAGCCACAGATGTCTT

Sequence 2279

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGTAGATGGAAG
GAAGAACTTGTGTGCTTAGACCTGACGCTGGGAGGAGATGCTGCCACCTAGGTTACTTGT
AGGACCCTATACGGCAACCTCCTTTGCCAGGAACTATTTATAAACATCCTGCAGGAAAAAT
GCAGTGAAGTANAAGAGACAGGGATATCCAGAAGGTTATGCAAAACATCAAGAGAAGAT
GAGAGGAGTCTATATGTGAGAATAACACATTTCCACCTTGCCCAACAGTAGAAAAA
AAAAAAAAAAAAAAAAAGTACCTGCCCCG

Sequence 2280

CCGCGGTGGCGGCCGAGGTACGCGGGGGCATTGTTGGAAGTTTACTCTGGTTAAAGGATA
GAGAAAAAATGGAAGGGGAGGGTAATCACACAGTCTAGGCAAGAGATGATGGTAGTT
TGGAGACAGAAGGTGTGGCAGTGGACATGAAGATAAGTGGATGGATTTGAGAGAACTTG
GAGAGTGAACTGCATGGATAGTGATGGATCAATGACAGTAGACTGGGATGAATGGAAGT
ACCTGCCCCG

Sequence 2281

CTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCATGATT
AGTTAAATATAAGACTCCGTAATTTTACAATTTTAAACAATAATTTTATTTCTTCAAGCT
TGTTAGTTTGGGATTGTATTAACACTACAGTGTGTGACTTAGAAAATGATAATGCTGCTT
TATGGAAAATGGATTATAGGTGGGTAAAGACTTCATTGCAAAAATTGTGTAATACCATCAG
TGTTAGGAACCCAGTTGAAGTCTAAGAAGACAGATGTTAGTATCTTAGACTAGGTTGGTA
TTTGAATAGATATTGGTAATATCAGTAGAATTTAATAATACATTAGAAAGAAAGAAATCA
GAGAAGATTCTTTTATTTTCACTTGATACTTGTGTTGTTACTTTCAATGAGATAAGAAGG
ACAGGCAAAGGAGAAAAGTTCGGGGGCAGGGGATGAGAAGAAAACAAGAATTTTATGTTGG
ACATGCTAANGTTAAACACCTGCTTAACTCAG

Sequence 2282

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGATTGA
CATCCCACTACCTGATTTGATACACTAAGAAGGGCTTATCATTCTGTGGTACTCTTG
GCCAACAAATGCACGTGTAACATTTATTCATTGAAACACATTAGGCAGAATTGCAGGACAT
TCTTCAAAATAGCTGTCCAATACTCTTCAAAAGTGTGAGGTCCTGGAAGACAAAGAGATA
CTGAGGAACCATCACAGAGTGGGAGAGGACATAGAGTGATAAAAACTAAGTGTGATGTGG
AATCCTACATTGGATCATGGACCAGAAAGACAGCACTGATGGGAAGACTGATGAAATCTG
AATAAGTCTGTAGTTTGGTTTAAAGAAGAATAATAACAATAATGGTTTAGCTGCTGG
CTCCTTAATAAAATCCCTANTTACTGTAATGTCTGAAAATGAACCCCTATGGTGGGC
TACTGTGACTGTTCACTGCATTTGAGAATAAAGAATAATTAAGGAAAAAATACTCTGTC
AGCCTAGGCAATATAGTGAGACTCTATCTGTACCT

Sequence 2283

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCNCGCCCGGGCAGGTACCAGGCAGGATGGAG
CAGGATGGTGTGAGATTTATCACACTACTCAGGATAGTGACAATCTAACACTTATGAA
TTGTTTATTTCTAAAGTTTTCCATTTAATATATTTGAAATGAAGTAGACCCTGTGTGTAG

Table 1

CTGAAACTTTGGAAAGGAAAACCTATGGATAAGGGGGACTACTAGAATACACTTCAATAAA
ATAGCATTTTAAACAAAATCCTAGTGCCGTAGAGTAGTTCTCCATCTAGCTGTCCATCTT
TCAAACGTGGAGAGAGGTGAGATGAGGGAGAAGTATGGTCAGAGAGGGGAGACAGGTGTG
TGTGGTGTGGGTGTGCAGGTAGATACATAGCTCAGTGTTCACTGTGAGAGGTGAACAGAG
AACATTCCAAGCAATGGGAGTGGCATGATACAAGGCACAAAGAAGTCAAACCTGAAAGGCA
CCTTCAGGAAAAAGAAAGGAGTCTCTTGCAATTCATACACAGAGATCGGCACTGGCAAGA
AACAGGACTCTGGGGGAAAAATCAGGGCTTCCAAAAAAA

Sequence 2284

TATAGGGCGAATTGGAGCCTCCACCGCGGTGGCGGCCGCCGGGCAGGTACTTAAACAGT
TATAGTCACCATCACCTGCTTCAGAATGGTCTTTTAGATTGTGTTGTTTGTAAAGT
TGTTGGCACCAGGATGCAGAGAATCAGACTGGCCTGAGGTGAAGGAGCACACAGCCCTGA
GGGCTTGGAACCTGGGTCCAGTTCCTCTTCACACCCCTTCCACTCTGAGTAGCACATC
TCCCCAGGTGCCCATGGAACACCTGCTTCATCCCAAATATCCGTCCACCTAGGCGGGGT
GGTATGTTCTTACGTCTCTGACTTTGATGCCACTCATTCTATAGTTTAGCTGGTTTTCT
GTTCAAGATATTCTTGGTAGTAAGTACAAGTATGTTGCACATGTATTGGGGGAGGCGCT
TCATTTTTATTTAATACACATGTATTTCTCCTTGACAGGATTTTGATGGTGTGGGAA
TATCCTAAGTGGTAGCCTTCCAAAGTAGCAGTGAGTTGACATTCAGCTGCTTTTAACTAT
TCAGGCTACCTTTTATACTAACTTGAAAACTAGAATCTAATGTCTACCCCAAAAAAGT
AAGTCTTTGATATTTTATACTTTTATGTACCTTGGCCCGGTCTAGAACTA

Sequence 2285

AGGTACCCAGACTCCAGTATGAAAACCTCTCTGGGCTGTGTCCTATGATCTTCCCATGAGT
AACTCATAGTCTTGATCCAGTGGAATCTGGCCTTCATTAGTCTCAGTGGAAGTTGGTTA
TGTGGAAAGTCTCTGTTCACTCACTTGGGTGAATAACAGTAAAGACCTTTCTATTGTTTT
CACTTTACATTAGGCCATGAGTATTTGTGCCTGTAGCTGCAGTTTGTTAGTTTCTTAC
CCCAGGTATCTCCTGCAGCATGCAGCTCAGTCCTACCAGACCCTCAAACCTTAAAGCG
AACACTATTTCTAGGGAGGATTTTGAGGAAAATGGAGAAAGGGTTACACACAAAAAAGG
TTAAACTACTCTATGCATGTTTCTGCAATGTGTTATCTCAAGAATTCATCTCTGTAGCCC
ATCAGGGCAGGAGCTGGTCTCTCACCTGTTGATAATTTCCATAAGGGAGGTTCTTCCCC
ACAANTGTTTAGTCTTCCGACGCTGGTATAGCCTGACATGATGACATTCTACTTTCATGT
TGGTCGTGCTGCAGGGAGAATTCTGTGAGTGTCCCAATANGCTGGGAATCACTTGCTAAG
GGTGAACCCCA

Sequence 2286

CCGCGGTGGCGGCNCGAGGTACTTTTAGTAGAGATGGAGTTTCACCATGTAGTCCAGGCT
GGTTTCAAACCTTCTGACCTCAGGTGATCCACCTGCCTTGGCCTCCCAAAGTGCTAGGATT
ACAGGTGTGAGCCACTGTGCCAGCCAGAATATATCATTTCACTGGACTCTGCAGGTGCT
TTGGATGATCAAGGAATAGGACATGGCTGTAGAAGTACGCGGGTGTGAGGAGGCATATT
TTTAAAAGAATCAAATATAATTTAGATAGGAAATGACAACTCAGCAGACATATTATGAA
GGAAATGAGACATACAGGAGAAGAGAATTAATGAATTGGTTGGAGGCTAGAACTTAATAC
CCTCATTGTAGCCAAGAAGAGAGAGAGAGAAAAAAGGAAAACATGAAGGGAATAAAGA
AACATGTTAGTGGGATGAGAGTCTCACATATGTATTCTGTAAAGTAGAACTGAAGGAAG
GGACAATATTCAAAGTGAGATGACCAAGTACCTGCCCC

Sequence 2287

GACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACCATCCCCAAGG
ACACGGAAGTATTTCTCATCCTGAGCACTGCTCTCCGTGACCCACACTACTTTGAAAAAC
CAGACGCCCTCAATCCTGACCACCTTCTGGATGCCAATGGGGCACTGAAAAAGAATGAAG
CTTTTATCCCCCTTCTCCTTAGGTAAGCTGGACCCACAGTTTCTTTCCAGACACCAGAGG
GGCAGGTCTATCCTCAACTTTGAGAAAAAATGACAGGTCTTATTAATTGAGCACTT
AATATATTCCAATTGCTTCACCTGCCTTATCCCCCTCCATCTTCACTACAACCCTGTAAG
GAGGCTTGAGAAAGAAGATGACATTCCCAAAGGCACATCTGGGCAAGCAGGAACCTTGGGC

Table 1

AAGTATTTTAAACATCTTCTAAACCTCAGTGAATTCATTTTCTTAAAAAGAAAAAATCTT
GT

Sequence 2288

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTT
TTTTTCTGCTTTGATTTCATTTTATTTTTTAAAGAAGAAAATAAAAATCTCAAAGACT
AAGTTCTCATACTGTAATTCCTGGAAATCATTCTGGAGTCAAATACTTTTGTCTGTTAAG
AAAAAAAATAAAATGTAGANATTTCTGCTGCTCCGGGAGTGTGCCAGCAGACAGGGGT
TTTCAGGGCTCCCCNTGCCANAACTTTNTTGAAGCAAACGTGGGCAAGCTGCCCGGGA
CCCGGGCCTNTGAGTTGCAGAGAAGCAGGCTGTTGCCAGGAAGCGGACTCANACAGTGGA
GGCCCCCTCGCTTGACCCCTTCCGGGGCCACGTGATTTTNTGCAAAGCACAAAGACAGCAG
CGGTCAGGCGGTTTTAGTTGTTTGGACGGCCCAAGGAGTTTGTCTTTTAAATCCTT

0

Sequence 2289

GNGGCGGCCCGAGGCACNTACTNTTTTTTTTTTTTTTTTTTGGGATTTTTAGCTGAT
GAAATATGGTCCCATTTATCATCAGTTCTAACTTCGTGTTACTACTGTTGTTCTTAAGGT
CCTTAAAGTAAATTTAAGACTCAATCTAAGTGTGTGAGTGTGATTACCATTTCTATTTA
NAAAGGCAGAATTTGTCTTAAAGATATTTGNCTAAAGTGTGTGTTAGTATTTGTCAAAA
TAAATGGAGGGAGGGAGTGGGTGAGCTGGGATAGAGGCAGGCAGAAAGCAACAGGACAGA
GAGTTNGANANAGAGAAAGAAAAAAA

Sequence 2290

CCGCGGTGGCGGCCGCCCGGGCAGGTAAGTCTAAAGAACTCTAGAACATACAGGGTGTAG
ACGGCAGTCTTCTTGGGGAAAAAGAGGCTTCAGGATTGCAAGATTTTCACTACTGTCTCT
CCTCGGAGCAGGATTCCATCTTTCCATGGCTGGGGCCCTTGACACATGTCACTGTACAC
TGCTCTTCTCGCTGGGATTTCCAAAAGACCTTGGCTCAAGGTGTCACTTTTGCAGAAAAG
CATTTACTGACTGTTGACTTGGCCAAATCCCTTGTGCTGTGTTTCTAGCACGGNGAGTT
GCATTTTTCACATGAACTCATGCCTACCTTCTCTTGTTTTATAAGCTTCATGAAGGCAGG
TACCT

Sequence 2291

CCGCGGTGGCGGCCGCCCGGGCAGGTACCCGGGAGGCTCGCATGTGTGGGTGCATGCCGT
GGCAGGAGAAGGCTTCCGAAGAGCCATGCATGCGTCCTCTGGCTGCTCCAGGTGTAAAAA
ATGCCAGGGAGGGGACAATGATGAGTCCTAGGCAGGAAAGGTCTCTGGAGAGAGGAAAT
GGCACACGCGCAAGCACGGAGGCATGAGGGGCCAGGGTCTGGAGGACACTGGGGCCGGG
ACAGATCAGACTCCCCCGCGTACCT

Sequence 2292

NCGCCTGGGCAGGTACACACTTGTGTGCATTTCTGTTGGGTATATAACAAGTATGAAATT
GCTGGGTCTTAAATATTTATATTAACCTTCATTAAATGCTGCCTAAGAATTTTCAAG
TGTTGTGCTATTTTACCTTCACCAGTTCTAGTTGTTCCATATCCTTGTCTCACTTGGC
ATTATCTGTATTTTTATTTTGACCAGACTGGTCTGTGTGTCATAGTATCCATTGTCTAT
TTAAGTTGCATGCCTTTGATGAAGACATTTTCTGATGCTTAATTGGCTCTTTGAATATA
TTCTGTAAGTATTTGTAGGAAGTTTTATATTTCTGGATATAAGTTTTTATTGGAC
ATAAATATTGCAGATATCTTCTCCCACTTTAACTTCCCTTTTCTTCTTAATCATGAC
TTTCTTAATACAAAGTTCTTAATTTAATGTAGTCCAACCTTAGCAGACTTTTTCTTTATA
GTTAATGCTTATTTAAGTCTTGCTCAAGAAATTTTGTCAACTCCAGTGTCAATAAGAAA
CTCTCTTATGTTATAGAAGCTTGGTTTTTTTTTTT

Sequence 2293

CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGGAGATGCTGCCACCTAGGTTACTTG
TAGGACCCTATACGGCAACCTCCTTGGCAGGAATTTATAAATCCTGCAGGAAAA
TGAGTCTATATGTCAGAAATACACATTTCCACCTTGCCCAACAGTAGAAAAACATAAGAA
GAGAAAAACATTAAAAAATGACAAGGAAGTTAATGGAAGTCAGCAATGTGATGGGTGTTT

Table 1

GGAGGTGGAGCCTTCAGAAGGTAATTAATGCCCTTGTAAGAAGAGGCCAGAGAGCTTGCG
CACCTTCTTCCTGCCATGTGAGGAGCCAAAGAAGCCGGCTGTCTGCAACCTGCAAGAGGA
CCCTCACTAGAAGCTAGCCATACTGGCATCCTNATCTTGGCTTTCCTCAACTCCAGAACTG
TGAGAAGTATATTGTTTGTGGTTTAGTCAATGGGTCTATG

Sequence 2294

CCGCGG1GGCGGCCGAGGTACACTGATTTCCGATCAAAAGAATCATCATCTTTACCTTGA
CTTTTCAGGGAATTACTGAACTTTCTTCTCAGAAGATAGGGCACAGCCATTGCCTTGGCC
TCACTTGAAGGGTCTGCATTTGGGTCTCTGGTCTCTTGCCAAGTTTCCCAGCCACTCGA
GGGAGAAATATCGGGAGGTTTGACTTCCCCGCGTACTTTGGAGTCCCCTGGTTTCTCAAG
AATTGCCGTTGACTCTTTCTTTGGCTTCTGCTGGCACGGTAACCAGACTCCCTACAACCTG
CACTCTTTGTCTTTGTCTATGGAAGCCGCGAGCCGTAGAGGTTCCGCGTGCTCTGCCGGAC
TGTGAGCAGGNTCACTGGGTCTTTACACTTGTGAATTCGAAGCTTGCCAGA

Sequence 2295

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACTGATTTCCGATCAAA
AGAATCATCATCTTTACCTTGACTTTTCAGGGAATTACTGAACTTTCTTCTCAGAAGATA
GGGCACAGCCATTGCCTTGGCCTCACTTGAAGGGTCTGCATTTGGGTCTCTGGTCTCTT
GCCAAGTTTCCCAGCCACTCGAGGGAGAAATATCGGGAGGTTTGACTTCCCCGCGTACTT
TGGGAGTCCCCTGGTTTCTCAAGAATTGCCGTTGACTCTTTCTTTGGCTTCTGCTGGCAC
GGTAACCAGACTCCCTACAACCTGCACTCTTTGTCTTTGTCTATGGAAGCCGCGAGCGTAGA
GGTTCGCGTGCTCTGCCGGACTGTGAGCAGGTCACTGGGTCTTTACACTTGTGAATTC
GAAGCTTGCCAAGATGTATCCCCAATGCATTGCCACTTCTGCCCCGGTTGT

Sequence 2296

CCCCGCGGTGGCGGCCGAGGTACNCGGGGGTGGACAGACATGGGAGTGCTGAATCCCCAG
AGTTAGAGTCCACATCATGTCTCTCTGAAGAACAGNTAAAGTGCTTCTGGATGAATGCA
TACTTAAACAAAAATCCATCATTAACTTTCTTCAGAAAGAAAAAGGAAGACATTGAGG
ACGTAACACCTGTGTTCCCCCAGCTTTCCAGGTCCATCATCTCTAAATTGCTAAATGAAT
CAGAAACAAAGGTCCAGAAAACTGAGGTAGAAGATGCCAGATATTGCTTTGAGAGTGAA
GAAATGTTGAAGCTTTCTTAAAGGGCTACTATCTCACTAAAAGCCCTTTGACCTGGGGA
CCATTAACCATGGTTCAAAAAGCTTCTTTGTTCCACTTGAAAGCCAGGAAGAAATATTG
AAAANTGCCCTTTTCAAANTTT

Sequence 2297

AGCGGCCGCCCGGGCAGGTACACACACTCACGCATGCACAGGCACACTCACCGGGACACG
CACACAGTTGTGCTGTGCACACAGGCATACACACACACACCCTCACACGCACACACACTC
GCTGGATCACTCACACACACATCCACGAGAGGCGCGCGCCTCTTTGGTCGTGCAGCC
AGCCCCCTGGCTTGCTTTTGAAGGCTCTGCTAAGTCGATGGTCAGGTTGCCAAAGGGCCGG
TCATCTCGCATCCTCCCTCCCTTCGGTGCCTCTGGTCTGATGTCCAGTGAGGATCAAAGC
CAGGAGAGCGAGATGGAAGTTTTCTGCTGCAACGCTTAAGCTCCGTTGAACACAAGGC
TTGGAATCCCCGCGTCTCGGCCGCTCTTAGAACTAGTGAATCCCCCGGGGCTGNAGG

Sequence 2298

CCGGGCAGGTACGCGGGGTAGATGGAAGGAAGAACTTGTGTGCTTAGACCTGACGCTGG
GAGGAGATGCTGCCACCTAGGTTACTTGTAGGACCCTATACGGCAACCTCCTTTGCCAGG
AACTATTTATAAACATCCTGCAGGAAAATGAGTCTATATGTCAGAAATACACATTTCCAC
CTTGCCCAACAGTAGAAAAACATAAGAAGAGAAAAACATTAATAATGACAAGGAAGTTA
ATGGAAGTCAGCAATGTGATGGTGTGTTGGAGGTGGAGCCTTCAGAAGGTAATTAATGCCC
TTGTAAGAAGAGGCCAGAGAGCTTGCGCACCTTCTTCTGCCATGTGAGGAGCCAAGGAA
GCCGGCNTGTCTGCAACCTGCAAGAGGGACCC

Sequence 2299

GACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGTAATAGTATCA

0

Table 1

GGCATTGGCTTAGACACTGAGGATAAGAGCTCTATATACTTGTGAAGTTGGTGAAAGTTG
AGAAGGATGGAGAAAGAGATAGAATGAATATAAAATATGAGTAGAGAATTGCTTTAATT
TGAATAGCCTCATTGTTTTAGTGCTCTGAATAGAAATAGAAAAAATGGTTAGTATTTAC
TGGAATTGCTATTTTTAGGTCATTACAGAGTTAAGGACAAATTTCAATTGTCACACATAAA
AGGTCTTATTTACATAAACAAATTTACAGGGCTTGTACAAATACAAGAAACCAAAAGCCC
TAAGTCTGTTTCTCATGGGGTTAAATCTGTCTCTTCAATCTATCAAATATTTGGCTTTA
GAATCCTAACAGTCTTAGCTATCATTCAAAG

Sequence 2300

GAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATGGAGGGCTGATTTATCACATACG
TGGGTTCTGTAGGGCCCACTGTGGGACTTGAGTATGCATTGGGTTTTGTATACTCAGGC
GTTCTGGAATATCCTCCATGTATACCAAGGATGGTTATTTCTACAAAAGCAGGAGGTA
AAGCCCAATGCACAGCTTGCAGATTCCCCTCAGGCGAGAGACAGAGGTTAAGGGTAGATG
GCAGATGACCTAAGTGGCTTGTGTTAGGAGGCCACTCCAGGGCCACAGCTTTCATGTGT
TTGCCACCAGGGTAGAAGGTCTTGCTGACAAGGGCAATGACTACTAACAGCCCCAGCTTG
CATGGAACAGAAAAGGGCATATTGCTTGTGGCCACCAGGGCTCAGGCTCTATCCCTCAG
CAAGCTTTGGGATC

Sequence 2301

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGACGCGGGAGTTTTTCAG
AATCAGGCCTGCTTTGTCCCTAAATGCTTTCTTATTTCCCAGAGCCCTTATTGGATTTA
AGCCCCATATCATATCTCACATACCTGAGACAGACATACCACAGTGAACCTGCGATGTCC
TTGTAAGTTCTTTTCCGTGCCTAGAAGTTGCAGAAGACCAAGGAACCTTGAAGTGACT
TACTCTTTTGTTCATAAAGTTGCTTTAAACAGCCTTTATTTTAATTATTAACAAGGTA
TGTCACACATTTTTAAATTTAAGGTTAATTTAGTCATTAATTCTGTCAAACAAGTGTC
TTTGAAGCTAGTTGTCTTCAATGTCTTTTACTTGGAGTTACTTGAAGTTTGCTTAAAC
TTTATTCATTGGAGTAGAATTCCTAG

Sequence 2302

TACGACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAAC
TTGTGTGCTTAGACCTGACGCTGGGAGGAGATGCTGCCACCTAGGTTACTTGTAGGACCC
TATACGGCAACCTCCTTTGCCAGGAATTTATAAACATCCTGCAGGAAAATGCAGTGA
AGTAGAAGAGACAGGGAATATCCAGAAGGTTATGCAAAACATCAAGAGAAGATGAGAGG
AGTCTATATGTCAGAATACACATTTCCACCTTGCCCAACAGTAGAAAAACATAAGAAGA
GAAAAACATTAAAAATGACAAGGAAGTTAATGGAAGTCAGCAATGTGATTGGTGTGTTGG
GAGGTGGAGCCTTCAGNAAGGTAATTAATGCCCTTGTAAGAAGAGGCCAGAGAGCTTGCG
CACCTTCTTCTGCCATGTGAGGAGCCAAGA

Sequence 2303

TAGGGCGAATTGGANCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCATGATTAGTTAA
ATATAAGACTCCGTAATTTTTACAATTTAACAATAATTTTATTTCTTCAAGCTTGTTAG
TTTGGGATTGTATTAAACTACAGTGTGTGACTTAGAAATGATAATGCTGCTTTATGGA
AAATGGANTAATAGGTGGGTAAAGACTTCATTGCAAAAATTTGTGTAATACCATCAGTGTTA
GGAACCCAGTTGAAGTCTAGAAGACAGATGTTAGTATCTTAGACTAGGTTGGTATTTGAA
TAGATATTGGTAATATCAGTAGAATTTAATAATACATTAGAAAGAAAGAAATCAGAGAAG
ATTCTTTTATTTTCACTTGATACTTGTTGTTACTTTCAATGAGATAAAGAAGGACAGG
CAAAGGANAAAAGTTCAGGGGC

Sequence 2304

CTCCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGATTATCTTA
GTGTAATGATTTTTGTAAAATAATTTAGTTGTTAGATACATGAACAGATTTTTGCAAA
GAAAACAAATTGCATGGCACTGTATCCTCTCAGGACATTTTGAGATAAGATGTGAAAATG
ATACTCATTGGAACCAAAAAAAGATTGAAAATAATTTTTGTAGAAAATATAATTAATTA
TTCTACTATGGTGTGTATGGTGTGTGTGTGTATATATATATATATATATACTGAAA

Table 1

TAAAATTATGAGTAATTAACCTTTATGACAGGTAACACTAATAAAGTGCAGTGGCATGTTT
CTGAAATCCCAGCATTTTGGGGGATTGAGGTGGGGAAGGGATTACTTTGGAGGCCAGGGA
GTTTGGGACTAG

Sequence 2305

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACTGAGATGATTAT
TCCCTCTTTTTTAAAAATTTGAAGTTTCCTTTGATTCCCCTTTCTTTTACAAAATGGAG
TCATGACACGATCCCCGTGTCCCGTGTGAGAACTGAAAGGTTTCTGTAGCTTTCTTTG
ACATGAAATTTCAAAAATATACTACTCTGTTTCACTCTGGCCTGTAATTGTTGCACTCTG
GCCTTTAATTGTTGCAACTGATTAGACATTTTCTTCCAGCATTATGGTAGACTCGATG
CCC

Sequence 2306

AGGTACTTTTCACTTTTTTTTTTTTTTTTTTGCATTTGAGCTAAGATTTTAAACAATCC
TGTGAAAATAGGTAATATAGTCACGTATTTGTTGAATACATTATTTCAAAGAACCACAAA
CACACAGAAAAAATATTTAAAAAGTCCATGGTGGGGGGAAATGATCCAGAAACAACAGCT
CTTCTACTTCCAGCCCTAACCGTCTGGGATGCTAGATGGTTGTGGGCAAACCGTGGAAAA
AGATAAGCTTCTGTTTTTCAAGATTTTATTTGTTAGAGAGTGCANAAAAATCTAAGTGAT
GTCTCTGTTTTTGCCTTCTAGCAATTAATATATGACAGCAGTCTTTGTGATTTATTTTAA
CTTTCTGCAAGACCTTTGGCTCACAGAACTGCAGGGTATGGTG

Sequence 2307

AGGTACTCTTGGTTTTTTAAGACAAAGAGCAAATCCTCCCCTGCCAGGATTGACTTTTGG
CTCTTTTTTTTCAAACCTCACTGCTTTTTGGTTTAGTTGTCATAAAATGCCAAGCACCAT
GAACAGGGCTCCATGAAGGGGCTCAGAGGTAGGAGGGCTGTGATTAGGAGAAGGCTTGGA
CTGATGGGCAATTTGAGTGCTCAGAATTAGAGTGAGGGGGTGGGGGTGCTGCAGGGACAG
ATGCTGGGGAAAGACACCCTGAAGGGCAAAGGGGAGCAACAAATGGGCTGCAAGTACCTT
GCCCCGGGCCGGCCGCTTCTTAGAACTAGTGGGATCCCCGGGCTTGCAAGGAAATTCG
ATATCAAGCTTATCGAATACCCGTCCGAACCTTCNGAGGGGGGGGNCNCCGGGTACCCAA
GCTTTTTTGTTCCTTT

Sequence 2308

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACNCGGGGATGCTGCCA
CCTANGTTACTTGTAGGACCCTATACGGNAACCTCCTTTGCCAGGAAGTATNTATAACA
TCCTGCAGGAAAATGAGTCAAGGAAGCTTTTNTTTTGTAGCTATTTACAGCTTTTAGCAAT
TGAGTAAAGTATACTCCTGTGAACAAAATTTGGAACATATTTGNTTCTNTCTAAGTATT
TCTNCAGAATTTGGAAGTGTTCAGTGAAGTAGAAGAGACAGGGATATCCCAGAAGGTTA
TGCAAAACATCAAGAGAAGATGAGAGGAGTCTATATGTCAGAATACACATTTCC

Sequence 2309

GACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACNCGGGGGCAGTGG
GAAGCTCGCNGCAGCTGGGGAGGAGCCAAAGCCTCGGCAGCTCACCTAANCCGCANGGAG
ATACACCCAACTGGGAGATGAGGAAACAGCNACCCAGAGAGGAGAACTAACCCACACAGG
ATCATTNNCCGAAGGAGCACGGCTGAAGAACCANACCTGGACTTTCTTAGGACAACTTA
CTGCAGCTTGAANGANCAACCATGGATTTGAGGCGTGTGAAGGAATATTTCTCCTGGCT
CTACTATCAATACCAATCATTANCTGCTGTGCTGNTTTAGAGCCCTGGGAGCGATCTAT
GTTTAACACCATCTTACTAACCATATTGCTATGGTGGTATACACTGCCTATGTCTTTAT
TCCAATCCACATTGCTGCTGGCTTGGGAATTTTCTCAAAAA

Sequence 2310

AGGTACGCGGGAGAATTTGTTGCATTGAGTTATTTAAAGTAGATTATACACATTTAGCATG
GTTAGAACTAGATGTTACCACTGAGTGTCTTCTCTTAATAAGTTAGTTTAAAGAGGCTG
GGGATAATTTACGGTAAAATGGCAGCTTAACCCAGTTTCAAACATTGAACTTGAAAA
TTTTCTTTTTGAAAAATTACATATACACCTGGCACTCTCTATCTGTGGGTTTCACATCC
CAGGAGTCAACCAACCTCAGAAACAACCAATCGTGGATTGAAAATACTTTGGGGGGGAAA

Table 1

AAATNNAANANAAAAANAAAAANNNNANGGTACCTGCCCGGGCGG

Sequence 2311

CCGGGCAGGTACGCGGGAGAACTTGTGTGCTTAGACCTGACGCTGGGAGGAGATGCTGCC
ACCTAGGTTACTTGTAGGACCCTATACGGCAACCTCCTTTGCCAGGAACTATTTATAAAC
ATCCTGCAGGAAAAATGAGTCAAGGAAGCTTTTCTTTTGTAGCTATTTACAGCTTTAGCAA
TTGAGTAAAGTATACTCCTGTGAACAAAATTTGGAACATATTTGTTTCTCTAACTGAT
TTCTCCAGAATTTGGAAGTAGTTAGTCTATATGTCAGAATACACATTTCCACCTTGCCC
AACAGTAGAAAAACATAAGAAGAGAAAAACATTAAAAATGACAAGGAAGTTAA

Sequence 2312

AGGTACGCGGGGCAGTGGGAAGCTCGCAGCAGCTGGGGAGGAGCCAAAGCCTCGGCGCTC
ACCTAAGCCGCAGGGAGATACACCCAACTGGGAGATGAGGAAACAGCAACCCAGAGAGGA
GAACTAACCCACACAGGATCATTTTCGCGAAGGAGCAAGGCTGAAGAACCAGACCTGGACT
TTCTTAGTGCTCATTCCTGGGCCCTCGATCACTGCATGTTTGTTACATGGTCCAGTTTGC
TGCTTCCTGGAAGAGCATCTCCTGACTGTGATGCCTTTGAGAATAAAGTCTTCCGAAGC
CATTAATATTCAGAAGGAGCCACATGGACA

Sequence 2313

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTNAANGACTGACTGTGCT
CCANANAGTGGANAAAAATGAATTGGGAGCTGAGGAGGAATGGTANATGGAGGCTAATTA
CAGGATATTTCAAGATGCTTGAAATCAACATCCACATGATGAGATGACCTGGGTATCTT
GGGTTTCTTGTTGACTGGCANAAATTCATATNTAGAATATAAGGGGGTTAATATTGGCA
TTCTCTAGGGTGGTGAAGTGTCTGTTGTATCGTGTGGGGAANAATCACCTTGACAGGA
AAACATGGAGCTCAACACATCACTTATTCAGTCACAAA

Sequence 2314

CCGCCCGGGCAGGTACTATTCTCTCTCCAGATCAAATTTTCTCCGGTGGCTAAAAAGTT
GTTTGTGGTAACTGCAGTGAGTGCTATACCTGTAATTTTCTGGCTCATCACTTTAAAG
AAACGTGGAAAGAAGAAAGGAAAAATATTACCATGGGAACCAGAGCACCTCATACTTGA
ATACACTAAAAGAGCAGCATCAGACAAAGGTTCAAGTTGTTCCAGTAGCAGACAGAATTT
GACATTATCTTTAAGTTCTACCAAAGACAAAGGATCTCAAGTTTGTAAGTATGCTAATGG
AGGACTTTTCAGTAAATATTCAGGTTCTGCACAGAGTTTGGCCTCTGTCCAG

Sequence 2315

ACTATAGGGCGAATTGGNNCTCCCCGCGGTGGCCGGCCGCCCGGGCAGCTACGCGGGATA
AGAGGCCAGAGGAAGAGCGCTTCGAGCTTCTTCAAGGAACTTAGAGAAGAGCGGCATTGT
GCTCCTTCTGGGACCCCCACAGGACCAGAGATCCTTGCTGCTGCAGTTCCCTCCTCTTC:
CTAAAGAACAATAGGGAACAAGTAGAAGTGGTAGAATTTACAGCAATAAAAAAGAAAA
TTGACGCCAGATCATAACAAGAACACAAAGGCTAATCCTAGTGTGTTGGAGAGAGATGTG
GATACACAAGAATTTAACCCTAGAAAAAGCTCGTTTAGAAGTGCACCGGTTTGGTATCAGG
GGTTATGGAAAAGGAAAGGAGAGAATCCTGGAACAGGGAACGTGCCATTATGCTGGGCGC
TAAGCCTCCTAAAAAGAGTTATGTGAATTAC

Sequence 2316

NCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTGTTCTTTTTTNT
TTTTTNTTNTTGGAGCAGCTAAATCTAGGATGGNGTTAAGTTTCTTCATTTTGTCAA
TATATATAAAAAATTAGAAACAACATGAATCTGCATTTCTTGATGAGATAGTTAATAAC
AACTATTTCTCAATATTTGTATACTAAAACTAGTGAAGGTGTTATGNGTTCCAGTATC
TTATCTCTTATTTGAACATGGGTTTNTGAAAGGAGCCTATATAATAATATAAATGGTATG
TAGTAAATGAGGCNCTGTCTTGGCTGGGACTGCTATAAAAAAATTACCATAGACCATTGA
CTAAACCNCCAACATNTNCTTTTACAGTTCTGGAAGTTGGAAAGCCAAGATGAGGATGC
CAGTATGGCTAGCTTCTAGNGAGGGTCTNTTGC

Sequence 2317

CCAGACGGGAAGCTGACATTGCTATTGATGTTCCAGCATTGATTGAGCTCCTGCCTCGTC

Table 1

TGCATCAAGCATGGTCCTCGCAGCTTCACGCAGTTAGAGTCCACATCACGTCTCTCTGAA
GAACAGTTAAAGTGTCTTCTGGATGAATGCATACTTAAACAAAAATCCATCATTAAACTT
TCTTCACAAAGAAAAAGGAAGACATTGAGGACGTAAACACCTGTGTTCCCCAGCTTTCC
AGGNCCATCATCTCTAAATTGCTNAATGAATCCCCAAAACAAAATGGTCCANAAAACTGG
AGGTANGAAGATGCANATAGTGCTTGAGAAGTGAAGAATGTGAAGCTTTCTAAAGGCTAC
TTTCTACTAAAGCCTTGACTGG

Sequence 2318

GCGGCCCCGAGGTACAATTGTGTCATATTCATGCACAACCTTCATTTTAGTCTCTATTTGAC
TTGATTTCTTTAGTGGATTTGGGCTTTTGGCCAATAAGATAAATACCTGCAAGGGACAT
CACATAAAATTCGATCATAGAAGAGGATCTCTTTCCTGCCGTCCACATCTATCTGGAGCC
TGGGTATGCTGGAGGCATCATGGTTGACCACCCCCGCTACAATGGAACAAGGAGATAAG
CAGTGAAGGCCAAGGGAATGTCTGGAGTTAGGACTTCAGGTGATTCACAACTTGGCTGC
CACTCACCCGAGACTGCCAAGCCAGATTTCTTNCCTCTATAAGAATATTGATTCTTGC
AAATAAGATGAACCTAAATGTGGTCCAGGAGCCAGCATCTTCTACATGGTACCTGCCCCG

Sequence 2319

ATACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGGCCNNGGTCCGCGGNNAGGGAGAA
TGCTGCCACCTAGGCTACTTGTAGGACCCTATACGGCAACCTCCTTTGCCAGGAACCTATT
TATAACATCCTGCAGGAAAATGAGTCTATATGTCAGAATACACATTTCCACCTTGCCCC
AACAGTAGAAAAACATAAGAAGAGAAAAACATTAATAAATGACAAGGAAGTTAATGGAAG
TCAGCAATGTGATGGTGTGGAGGTGGAGCCTTCAGAAGGTAATTAATGCCCTTGTAAG
AAGAGGCCAGAGAGCTTGCGCACCTTCTTCTGCCATGTGAGGAGCCAAGAAGC

Sequence 2320

CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGGCCGAGGGTACGCGGGGGGACAA
GGGGCTTGAGCGTTCTGTGGAGAGAGTGCGAGGTCAGGCCATGAACCTGGGAGATGGTTT
AAAGCTTGAACTGAATTACTGGATGGAAAAACCAAGCTAATATTGTCTCCATATGAACA
TAAATCAAAAATTTCTGTGAAGATGGGAAATAAGGCCAAGATTGCAAAATGTCCTTTAAG
AACAAAACTGGGCACATTCTAAAATCAACACAAGATACTTGTATTGGGAGTGAAAACT
TTTGCAAAAAGAAGCCAGTTGGTTGAGAAACATCACAGGCAAAAAGAAAGAGATTTACCTG
CAACTCCTAATATGCAGAAGACTAGAAACACCGTAAATACATCTCTAGTAGGTAAACAGA
AGCCTCACAAAAACACATNACAGCTGAAAACATGAAGAGCAGTTTG

Sequence 2321

ATCATACTTAGGGCGAATTGGAGCTCCCCGCGGNGGCGGCCGCCCGGNCGGGTNCCCCGGG
GGANATGCTGCCNCCTAGGTTACTTGTAGGACCCTATACGGCAACCTCCTTTGCCAGGAA
CTATTTATAAACATCCTGCAGGAAAATGTCAGAGATGGGAAGAAACAAGAACTTTGACAT
GCTTGGTGTCTTGCCCAAGCTTTGAAGAAGTTTACAAAGTCTATATGTCAGAATACACA
TTTCCACCTTGCCCAACAGTAGAAAAACATAAGAAGAGAAAAACATTAATAAATGACAA
GGAAGTTAATGGAAGTCAGCAATGTGGTGGTGTGGAGGTGGAGCCTTCAGAAGGTAAT
TAATGCCCTTGTAAGAAGAGGCCAGAGAGCTTGCGCACCTTCTTCTGCCATGTGAGGAG
CCAAGAAGCCGGCTGTCTGCAACCTGCAAGAG

Sequence 2322

GGGNATTGGAGCTCCCCGCGGTGGCGGGCCGAGGTACACCAGAGTCCAAAGACGTAAACGT
GCCTTCAGCAGGGAAGTTTCGGAGGTCTTGATTCTGATGGTAATATTCTTTTCATAAAAA
GGAAATAAGTAATATTTTGTGGCAAGATCACAGTCCCTAGCTATGCCTTAAATATCAT
CTCAGCTGAATTCTGTGTTCCACTCCACAGCCTTCTTTGCAACACTGGAAGGTTAACGGA
TTTGAAGTAAATGAATTGTAAGTGAATTTCAACCTAATTAGAATTGGTTTAAATGCCA
GTTTGGACCGTGAACAGGCTAGCCAAGAACAAGTATTGGGAGGTCCATGTAATATNGAAG
AGAGTTGATATTTGGCCCACTTCTGTACTTTAAAAACAGAGAAGTNAAACAAAATAT
GAGGATNTCTTTTGGCCAGCAAGTCC

Sequence 2323

Table 1

CNCTTAGGGCGAATTGGAGCTCCCCGNGGGGNCGNCCNGGGACNACCCTTGGNTTCCCA
GNGGGCNT.CAACANATTTTTTTTTTTAANAAATGAATCACTGAGGTTAGAAGATG
TTAAATACTTGCCCAAGTTCCTGCTTGCCAGATGTGCCTTTGGGAATGCATCTTCTT
TCTCAAGCCTCCTTACAGGGTTGTAGTGAAGATGGAAGGGGATAAGGCAGGTGAAGCAAT
TGGAATATATTAAGTGCTCAATTAATAAGGACCTGTCATTTTTTCTCAAGTTGAGGAT
AGGACCTGCCCTCTGGTGTCTGGGAAAGAACTGTGGGTCCAGCTTACCTAAGGAGAAGG
GGATAAAAGCTTCATTCTTTTCAGTGCCCCATTGGCATCCAGAAAGTGGTCAGGATTGA
AGGCGTCTGGTTTTTCAAAGTAGTGTGGGTCACGGA

Sequence 2324

GGNGGCGGCCGCCCGGGCAGGTACACACAAAGACAAACCTGAACCTAATTTCAAGGAAAA
CTTAAACCCATGCACAAATAATTGGTGAGCCTTCATTTCCCTGACTTCAAGTTTCCATGT
GAGGACTCATGCTCTCTCCACTTTCTTCTTGGGAGGAGGGAAGATTTACCTAATGGGTAA
ATTTGGGCAAAGCACATTGAGTGTGCTTGTGGCTCTGAGTCTCTTTGCAACATGTGT
CTGCCACAGTGACATGAGTTTGCCTTGACTGTCATGTCTGCAGGAAGCTGCCTGCTCCT
GTGGCCATGTCAAGCAATTCTTCTTCAACTGCAACTGTGT

Sequence 2325

GGCGGCCGCCCGGNCAGGTACNCGGGGTAATTGACATTGTGGACTTCCTGGGGTAGTCCT
GAGTAAAAAGCACTTAAGCACCTGTGGTACATCAAAGAGTCTCTTTGAGAGTTCTGCAAA
GATTCAAGTGTGTATACCTGAGTCTATATATCAAAAAGTAATGGAGATNAAATNGAAGAA
NGTANGAANGAGCCTNCTAAGAAGCCATCTGCCTTCAAGCCTGCCATTGAAATGCAAAAC
TCTTGTTCCAAATAAAGCCTTTGAATTGAAGAATGAACAAACATTGAGAGCANATCCGAT
GTTCCCNCCAGNAATCCAAACAAAAGGACTATTGAAGAAAATTCTGGGATTCTGAGAGT
CTCTGTGCGANGACTGTTTCACAGGAAGGGATGGTGTGTTACCCAAGGCTACACATCAAA
AAGAAAAA

Sequence 2326

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTGTTTTTCACTGTGGTAGGGTG
GAGCTTAATTGGGCANACCTGTCTCAGGGACCCTGGTGGTGCATGTCAAGCAAGGCTGG
CTGTGGTAGTCAATGGGCCAGGTGATAACCAGGTCTCTGGTGGTATGTCAAANGGGGGGC
CANANGNGCTTGGACTTGNGAACCATGTTACTGGAGGAGGTGAAANTACCTTTTCAGTGG
AAAGCCTCCATAGGCAGGAAGCTAGGGACACAACTTTGCTAATGCTTTAGCCCCAAAGG
CTACAACCCAGCACAGCAGCAGTTATGAGCAGNGAAATTTACCCCTTGAGGTACCTTGCCC
GGCGGCCGCCGNTNTAAACTAGTGGGATCCCCCGGGCTTGC

Sequence 2327

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGAGAATTGGAAACT
ATAAAAAAGTCACTGCAGATTTGTTAAAAAAGCCAAATATAAATTTGAAACTTG
AAAAACCAACAGTGAAATTAAGAACTCCAAATGTGTTAGTTATCTATTGCTGTGTAAC
ATACTGCTCAAACTTGACTTAACATNACCTTTNATTATCTCAAGTTTTTGGTTGGGTCA
GGAAATCCAAAGCCTTGGGCCCTAAGNTGGGGTCTCTGGCTTTTAGGCTTGCAAATCAA
AAGGCATTNGGTGCGGGGGGTANGGGTCTCCTNTGGGAGGCTGAAGCTGGG

Sequence 2328

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCACACACACAGGC
ACACGCAGGCACACACGCAGACACACACACATAAACACACAGAGTTCACTAGTCCGAG
TACTGATTTTCTTAGGATTCTCAAAGTGACAACACCGGAAACAAGGTAATTCATGTTAA
AACACAAGGGGTTATATTCAGTTAAGAGAATGGGGATCCCCGAAAGTAAACCGNNGGAA
TTTTGGAATCCAAGTTTTCGAAAGAAGCTTAAAAAAGGAAAATTNGGGNGTTTTCAAC
CATTTCAACCTTTCTTGGAAATCCCTTAAAGAAAAATACCAGGANGGTTTCAAAAATTN
NGGAAAAACATTTTNCGGGGTTTTTNNGGGGATTNCCCAAAAGNTTGGAAANNCAN
TTTTTGNNGNAATNAANGGCCCTTTANNTTTTTTTTAAAA

Sequence 2329

Table 1

TCCTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCGAAAATAACGTCAATTTTCT
 CAGGCTACTGAATTAGGTGACAGAATTTAAATTTAAATACAAAGTCACGTGGCTTTAGCA
 CCCAAATTCCTAACTAAAGTTCTGTGCAGGATAAGACTTATGACACTGGGATTATTTGTG
 CTCCCTTTATGCATCTGTGTTAACCACACATATTACCAGCCCTGTAGTTAATAGGTTAA
 TAAAGAATTAACGTGCTGCATAAAATATTCAAGAGAGGAGGGGCTTACTCCACAAGTGGAT
 CCTTGAGTCTCACCTTCTCTACATCTCCAGACCCCTCGGTGTCCAGCAGAACTAGGATGT
 GGCCTGGCTTCTTGGGGTGGGGCACACACCACATCCAGATTCCTTTAAGTGTGAAGACTG
 CACCGTGGAGCCCAGAGAGAAGCCTGCAAG

Sequence 2330

AGGTACGCGGGGAAACACTTCTTACCTCAGAGCTGAGCTGGGCATGAGTAGATGCTCAGT
 AAGTGGTGCACAGGGTTGGTCCCTATGGTGGAGGCCCTAACACCGCCCAACCCCCCTC
 CATGTTCTCACAGCTCCACGCACTGAGCACGGGCATGAAGGCCATGATGTCANAAATTTCT
 GCACCCAGGGAGCTGAGATGTGCCGAGGGCCTGTGGCGGACATGGCTACTCAAAGCTGA
 GTGGCCTGCCATCACTGGTCACCAAATTTGTCGGCCTCCTGTACCTGCCCGGGCGGCCGCT
 CTAGAAGTAGNTGGATCCCCGGGCTGCAGGGAATTCGATATCAAAGCTTATCGATACCC
 GTCGACCTCGAGGGGGGGGCCCGGTACC

Sequence 2331

NCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCGCGCCCGGGCAGGTACTTTTTTTTT
 TTTTTTTTTTTTTTTTTTTTACATGAAGTAAATTAATCCTNTTAACAAATTTACAAGG
 AACATATTCCTCACTTCATTATGTAAATAATAAAACAAAGCCTAGAAGGGTTAGTAA
 CTTGCANATCATATAGTCACTTTGCAGCAGGTCTGANATTTGGGTCCANANAGGCAGNT
 CCAGCCACCATGCAACCGAATCCTGCGCAGCACAGTTCGGNGTCATTCAACAAGACGGNA
 TCCATGTTGATTAAGGAATCTTAGCTNTTAAAGGNTCTACNAATTACATTTTTTCCACC
 CAAGC

Sequence 2332

CTNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCGGAGGTACTAAAAAAAAAAGAAG
 TGTTTATTTGAAATTCAAATATAATTTGACATCATCCCTTATTATCATTTGCTTAATCTA
 GTAATCCTAACTAGGAAGAAAGCAAAAAAAAAAGGCTTCTGTATATTCATATTAGATGCTA
 AAATGTATTCAAATTAGATGCTAAATTCATGCACTTACCTTGCAGAGGCTCACTCTCT
 CAGGACCTACAACTGGCAACTCTCAGCCAAATTTACCTCACTGATATATTTATTTGC
 TAAGCAAAATATTTTAATTTCAATTAGTTACCATCATTAATGAATAGAGTAGACATAA
 AAAAAATGATTTTATATTCTGGCTTAAAAAATTTGCCAGCCTGGGTAAACATAGCAAGGAT
 CTTGTCTCTACAAAGAAAAAAT

Sequence 2333

CCGCGGTGGCGGCCGAGGTACAGTAGGAGTGCCAGACTCGGGGAGAGGCAAGCTGGCGG
 GTCTCCAAGGTGCTTGTCACTCACTAGAACGTGGTCCCTTACCACTAGACAAGATCT
 CCTGGTTTGACAATGCAGGTGACACAGCTGAACTTTATCTCAACACGGCCTGAAGAATA
 CCACTGTCTAAATATGAGGTGCTAAATACTATGACCTACTCTAATATTCTCTCCCACT
 CTGTCCATCCTCGTGAAGTGGCAGCCCATGCTGGCCCAATGATGACAACCTCCTGTTCTAA
 GTGCACAAGCCGCACATTTAATAAACCTTTACCCAGTTTCTTCACTGGTGTTCATCTCT
 CGGCTTCACTTACAACCACTCCCTGTGGCTTTTGCAGTGAAGCCTCTAGCCCAAACTC
 TTCACTCCCA

Sequence 2334

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCGCGCCCGGGCAGGTACATGAAGGAGG
 GCACTAGGGGGAGTTAAGAATTTGTGAGTTAGGTAGCCAAGATTGTTGAGGTTGGAAGAA
 TGAGGAAAGAAAGGGGATCTGTGGCAAAATATGCTATTGGATCCACAGTTCTAGTTTAA
 GGACATGTCTAGTCCCTTTTCCAGCCCCCAGTTAATTACAATCCCTGCTGCCCAATGG
 AGAGGGAGGTTGTTCAACAGTAGAGGGAGCCAGGGGCTGGGTGTCTCAATAGAACTGAT
 CTGGTCCCAGAAGGGGCCCTTTAGATTTAAGTTTTTCGGATCGAAGGCAGAGCAAAGTGTC

Table 1

CCTTACAACCAATGGCTAAAATGTATGCCATTGTAGTAGATCACATTGTTAGTTTTCTTT

0

Sequence 2335

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGACAGGCCA
TCTCGCTATAGGAAAGGAAAAGTGGAACAGCATTATCCTCAACATTTTTACGAAGACAAA
ATGAAGACTGGAGTAGAAGACTGATCAGTGCAGGTGTAGCATAAAAGTGTAACTCTGGAA
GATGTGGTGTGAGAAGCATCATCAGCATCATGCTATTACAATCCCAAACCATGGGGGTTT
CTCACAGCTTTACACCAAAGGGCATCACTATCCCTCAAAGAGAGAAACCTGGACACATGT
ACCTGCCCCG

Sequence 2336

AGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTGGAC
AAAGAAACGTGTTTTAAAAAATAACACAAAGTCCATAATTTCAATGAAAGTAAGTGTCAA
GCTCTTACCAGGCTGGTCCCTCTGGTCCAGTTATAGCTAGTATATCTGCTTCAATACTATC
ATCTTCTGGTAAAGGTCTAGAAGACACAGGCATACTTTTAAATCCAGAAATTAAGAAAGA
ATTTTTTTTGAAGTTCAATCTATTAAACATACAGCTTATAGAAATAATTATTTGGAAAA
TGGAATAAAGCAGTGTTGTTGTTTTGAGACAGGGTCTTGCTGTCTGTACCTAGGCTGG
AATACAATGGACAATCATGGCTCACTGCAGCCTTAACTCCTGGGCTCAAGAGATCCTCC
CGAGTATCTAAGACTACCAGGTGCCGTGCCCGACGCTTGGCTAATTTTAGTACCTCGGCC
GCTCTAAAACATA

Sequence 2337

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTGGACAAAGAAACGTGTTTTAAAAAATAA
CACAAAGTCCATAATTTCAATGAAAGTAAGTGTCAAGCTCTTACCAGGCTGGTCCCTCTGG
TCCAGTTATAGCTAGTATATCTGCTTCAATACTATCATCTTCTGGTAAAGGTCTAGAAGA
CACAGGCATACTTTTAAATCCAGAAATTAAGAAAGATTTTTTTTTTGAAGTTCAATCTAT
TAAACATACAGCTTATAGAAATAATTATTTGGAAAAATGGAATAAAGCAGTGTTGTTGTT
TTGAGACAGGGTCTTGCTGTCTGTACCTAGGCTGGAATACAATGGCACAATCATGGCTC
ACTGCAGCCTTAACTCCTGGGCTCAAGAGATCCTCCCGAGTATCTAAGACTACAGGTGCG
TGCCACGACGCTTGGCTAATTTTAGTACCT

Sequence 2338

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACGCGGGGGCCACCTAG
GTTACTTGTAGGACCCTATACGGCAACCTCCTTTGCCAGGAACATTTATAAACATCCTG
CAGGAAAATGAGTCTATATGTGAGAATACACATTTCCACCTTGCCCAACAGTAGAAAAA
CATAAGAAGAGAAAAACATTAATAAATGACAAGGAAGTTAATGGAAGTCAGCAATGTGAT
GGTGTGTTGGAGGTGGAGCCTTCAGAAGGTAATTAATGCCCTTGTAAGAAGAGGCCAGAGA
GCTTGCGCACCTTCTTCTGCCATGTGAGGAGCCAAAGAGCCGGCTGTTCTGCAACCTGC
AAGAGGACCCTCACTAGAAGCTAGCCATACTGGCATCCTCATCTTGG

Sequence 2339

CCGCGGTGGCGGCCGAGGTACCCTGCTGAAAGATTATTTCTAACAGGCTGTAGAGAAAC
GTCCGGTTCATGTAAATTAGAAATTATGGGGCCACTTTGCCATTCTTCACACCTGCAATGA
ACAGGTGTTTATCTGCAGTTCTGACTTATCTCTGAACTCCATTTGCATGTTATAGTGGG
ATGCAGCTGATGCCCTGTCCAGATCTTCTTCAGGCCACTACATCTATATGCATTCTATA
TTCCAGTGGCTGTGAGTGTGGCTGTTGGTTGACAGAGGAGCTGCATCCTTCTGGAGGAA
ACTGAACTCAGCTGATGAAAGCCACCCTGGTCTGGGAGGTGAAGCATCTTCCAATGAC
AGCCTGCAGTCAATGACTGATGAATATGACTTCATTGCCTCATGACAGGGA

Sequence 2340

TATAGGGCGAATTGGAGCTCCCCGCGGTGGGCGGCNCGCCCGGGCAGGTACTTACAGTTT
GACTTTGAGTCAGCTCAGCATTCTAAATCAAACGCAAACAGCAGAATCATATGGCATAGA
CACTTAGCAAATCCAATGCCTTCCAGGCATCTGTTTCTGTTGATGAAATCCTCCCTATG
GAGAGCAAACCTGGTTCATATCTTCAGATAGTGTCAATCAACCCCTTGGTAGCTTCTGGG

Table 1

CTACTAAATATCACACCGTCTGGTGGGACATTTACCCCAAGTCGTGAAGGTCCGCAGCTT
CACTCCTGAGCCAGCGAGACCACGAACCCACCAGAAGGAAGAACTCCGAACACATCCGA
ACATCAGAAGGAAGAACTCCGGACACACCGCCGCTTTAAGAACTGTAACACTCACCGC
GAGGGTCCGCGG

Sequence 2341

TAGGGCGAATTGGAGCCTCCACCGCGGTGGCGGCCCGAGGTACCATGATTAGTTAAATAT
AAGACTCCGTAATTTTACAATTTTAAACAATAATTTTATTTCTTCAAGCTTGTTAGTTTG
GGATTGTATTAACACTACAGTGTGTGACTTAGAAAATGATAATGCTGCTTTATGGAAAAT
GGATTATAGGTGGGTAAGACTTCATTGCAAAAATTGTGTAATACCATCAGTGTTAGGAAC
CCAGTTGAAGTCTAGAAGACAGATGTTAGTATCTTAGACTAGGTTGGTATTTGAATAGAT
ATTGGTAATATCAGTAGAATTTAATAATACATTAGAAAGAAAGAAATCAGAGAAGATTCT
TTTATTTTCACTTGATACTTGTTGTTGTTCTTNCAATGAGATAAGAAAGGCAGGCAAGGAG
AAAAGTTCAGGGGCGNGGGGATGAGAAGAAAACAANAATTNTATGTTGG

Sequence 2342

CCGCGGTGGCGGCCCGCCCGGGCAGGTACCCTCTCTGTTCCCTCCCTCCACCCTTCCCC
TCCTTTTCTGTTTTAAGATAAAGTGTGATTGGAATTCAGCAACTGCAAGTCCATTTG
AAAGAGGTCAGTTTTGTTAGAGGCCTGGATAGAGCAATATGTTGTAACCAATCACACGT
GAACATTCTGTGGCTGAACATAAGAAATTTGTGCATTATTAACGTTGTGCTTCAAGGTGGA
ATGCTGAAAGCACTTGAAAGTAGTTGCCAGAGAAGAGCTCACTGAAAACATTATTAGCT
TTATATATCCACTTGTAATCTCTGTACAGTGATACATCCCTCCCTTTCATCTTGATCA
TAAATATAAGACTTAAAGGAGGCAGAGTGAACGTGCTTAGGAAGCCCACTGAGAGCTCTC
AGAAAGGCGCTTAATACCTTCTTAGTAAGTTGAAAGTAGGTTGATCTTCAAGT

Sequence 2343

CGGCCCCCGCGGGCAGGTACTATAGCTGTAAGGAGAAGCTGAGAAATGATACCCAGGAGC
AGTAGGCTTTACGTCTTCAGCCTAAACCTAAAAAAGAAAAAATTTAAAC
AGCTATTAACCTGAAAGCATCTGTAAAAAAGAAAAAANGGTCCTGAGC
ACCCAAGTCAGCTGTGCACTGAGGATTATGAGGACTGCAGGCTGTAGTCATTCTTCCCC
TGAGTCGTACGCTTGTCCACACAGCAAGGTACCT

Sequence 2344

AGGTACGCGGGGACGCTGGGAGGAGATGCTGCCACCTAGGCTACTTGTAGGACCCTATA
CGGCAACCTCCTTTGCCAGGAATTTATAAATCCTGCAGGAAATGAGTCAAGGAA
GCTTTTCTTTGAGCTATTTACAGCTTTAGCAATTGAGTAAAGTATACTCCTGTGAACA
AAATTTGGAACATATTTGTTCTCTCTAACTGATTTCTCCAGAATTTGGAAGTATTTGTA
GCTGAGACCAATGATGCTGACCTCCCTCAAAGCTGCATTTCTGAATTTCTGAAGGCAA
CTGTCTGCCTATATTGNACCTGCCCC

Sequence 2345

AGGTACGCGGGGACAGGCCATCTCGCTATAGGAAAGGAAAGTGGAAACAGCATTATCCT
CAACATTTTACGAAGACAAATGAAGACTGGAGTAGAAGACTGATCAGTGCAGGTGTAG
CATAAAAGTGTAATCCTGGAAGATGTGGTGTGAGAAGCATCATCAGCATCATGCTATTAC
AATCCCAAACCATGGGGTTCTCACAGCTTTACACCAAAGGCGATCACTATCCCTCAA
GAGAGAAACCTGGACACATGTACCTGCCCC

Sequence 2346

AGGTACGCGGGGAGTGTCTCCAGGACCCTGGCCCCCTCATGCCTCCGTGCTTGCGCGTGT
GCCATTTCTCTCTCCAGAGGACCTTTCTGCCTAGGACTCATGATTGTCCCTCCCTGT
GTTGCCTAGTTTCTGTTATTAAGGAGAATCAACTCTCTGGATAAACGTGCCTTCTCCTG
CCACGGCATGCACCCACACATACGAGCCTCCCGGGTACCTGCCCC

Sequence 2347

CGCCCCGGGACAGGTACCATGATTAGTTAAATATAAGACTCCGTAATTTTACAATTTAAC
AATAATTTTATTTCTTCAAGCTTGTTAGTTGGGATTGTATTAACACTACAGTGTGTGAC

Table 1

TTAGAAAATGATAATGCTGCTTTATGGAAAATGGATTATAGGTGGGTAAGACTTCATTGC
AAAAATTGTGTAATACCATCAGTGTTAGGAACCCAGTTGAAGTCTAGAAGACAGATGTTA
GTATCTTAGACTAGGTTGGTATTTGAATAGATATTGGTAATATCAGTAGAATTTAATAAT
ACATTAGAAAAGAAAATCAGAGAAGATTCTTTATTTTCACTTGATACTTGTGTTGTT
ACTTTCAATGAGATAAGAAGGACAGGCCAAAGGAGAAAAGTTCAGGGGCAGGGGATGAGAAG
AAAACAAGAAATTTTATGTTGGACATGCTAAAGTTAAACACCTGCTTAACTCAAATTGGCT
TCTGTGGAAGCAGAGGCTGCATGAGGTTGCTTATGAAAATGCTTTTTTGANGAAGCCATT
GCAGGAGGAATCTCTTANGAANCCAGGGAAGAAGGAAG

Sequence 2348

CGAGGTACGCGGGGGAGAAGAAACGGCGGAGACCTGAGACCGGGAGGCTGAGGCTGTAGG
CTGTTATCCTTGACATCTGCAGCAGCCCTTCCAAGCTGTGGAGACCAGGTCATCTGGAAT
GCCCCATTTATGTCAATGGAAGAAAGAAAAGGGGTCTCCTCCCATCCTCACCCTGCATT
CTCCCACCAACCCTGCTCCTGTCCCACTCCCACTCAGTTGTTGACAAATTAACAGT
GGGTTTCTGGAAACAGTGCTGCCTCCTTGATGGTCTAACTAACTACCAGAGTTATTCTAA
CAGCGGGAATTTCAAGCCAGCAAACCAGACATACATAGGAGGCACAGCAAAAGACCCAAG
GTGAGGGGCTTCCCTCACCTTCACCTTGTCTCACGTGGAGGTGGCGCATGCTATGAG
ACACAGTACCTGCCCCGGCGGC

Sequence 2349

CGAGGTACCATGATTAGTTAAATATAAGACTCCGTAATTTTACAATTTTAAACAATAATT
TTATTTCTTCAAGCTTGTTAGTTTGGGATTGTATTAAACTACAGTGTGTGACTTAGAAA
ATGATAATGCTGCTTTATGGAAAATGGATTATAGGTGGGTAAGACTTCATTGTAAAAATT
GTGTAATACCATCAGTGTTAGGAACCCAGTTGAAGTCTAGAAGACAGATGATAGTATCTT
AGACTAGGTTGGTATTTGAATAGATATTGGTAATATCAGTAGAATTTAATAATACATTAG
AAAGAAAGAAATCAGAGAAGATTCTTTATTTTCACTTGATACTTGTGTTGTTACTTTCA
ATGAGATAAGAAAGACAGGCCAAAGGAGAACGTTTCAGGGGCAGGGGATGAGAAGAAAACAA
GAATTTTATGTTGGACATGCTAAGTTAAACAGCTGCTTAACTCAGATTGGCTTCTGTGGA
AGCAGAGGCTGACATGAGGTTGCTTATGAAAATGCTTTTTTGAGGAAGCCATTGCAGGAG
GAATCTCTAAAGGAAGCCAGGGAAGAANGAAAGAGAAGGGAA

Sequence 2350

AGGTACGTGGGGAGGCCATCTGGCTGCTGCTGCTGCCAGCTTCCAGACGGAAGCTGA
GATTTGCTATTGATGTTCCAGCATTGATTGAGCTCCTGCCTCGTCTGCATCAGGCATGGT
CCTCGCAGCTTCACGCAGTTAGAGTCCACATCAGTCTCTCTGAAGAACAGTTAAAGTGT
TTTCTGGATGAATGCATACTTAAACAAAAATCCATCATTAACTTTCTTCAGAAAGAAAA
AAGGAAGACATTGAGGACGTAACACCTGTGTTCCCCCAGCTTTCAGGTCCATCATCTCT
AAATTGCTAAATGAATCAGAAACAAAGGTCCAGAAAAGTGAAGTAGAAGATGCAGATATG
CTTGAGAGTGAAGAATGTGAAGCTTCTAAAGGCTACTATCTCACTAAAGCCTTGACTGGA
CATAACATGTCAGAAGCTCTTGCTACTGAAGCAGANAATATGAAATGCCTTCAA

Sequence 2351

AGGTACTTTTTTTTTTTTTTTTTTTTTTGGTTTCTTCCTTCCTTCTGTCTTTTCTTCC
TTCTTCTTTTTCTTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT
TTTTTCTGGAGTAACCAAGTGACATAAGATCTGTTTGTGTTCCCCCATTTTACAAAAG
AAAATTTAAGTCTGCAACTTCCCCTAGGCATCTGCAGCAGAGAGTGGATTTGTCAACATG
CAAAGCTGCTGACCTGCCCGGGCGGCGCTCGAAGCGTGGTCGCGGCCGAGGTACGCGGG
AGTCTCGGTCTCCAAAAAGGGATACTACTAGGGAAAGCAGAAGATCTGAATCACTGTCCC
CAANAAGAGAAACTTCTAGAGAGAACAAAAGATCTCAGCCAAGAGTGAAAGATTCTTCCC
CAGGGAGAAAAATCCCAGGTCCCAGAGCAGAGAACGAGAAAGTGATAGAGATGGGCANAG
GAGAGAGAGAGAAAG

Sequence 2352

CCGGGCAGGTACCGCGGGGGCAGTGGAAGCTCGCAGCAGCTGGGGAGGAGCCAAAGCCT

CGGCGCTCACCTAAGCCGCAGGGAGATACACCCAACCTGGGAGATGAGGAAACAGCAACCC
AGAGAGGAGAATAACCCACACAGGATCATTTTCGCGAAGGAGCAAGGCTGAAGAACCAGA
CCTGGACTTTTCTTAGGACAAACTTACTGCAGCTTGAAGGAGCCAACCATGGATTGAGGC
GTGTGAAGGAATATTTCTCCTGGCTCTACTATCAATACCAAATCATTAGCTGCTGTGCTG
TTTATAGAGCCCTGGGAGCGATCTATGTTTAAACACCATCTTACTAACCATTATTGCTATGG
TGGTATACACTGCCTATGTCTTTATTCCAATCCACATTCGCTGGCTTGGGAATTTTTTT
CAAAAATATNTTGGATATNACAGTACCTTnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnAGGAATTCNATATCAAGCTTATTCGATACCCGTCNACCTTCGANGGGGGGGGCCCN
GTACCCAGCTTTTTGTTCCCTTTAG

CCGGGCAGGTACGCGGGGAACCTGTGTGCTTAGACCTGACGCTGGGAGGAGATGCTGCCA
CCTAGGTTACTTGTAGGACCCTATACGGCAACCTCCTTTGCCAGGAACTATTTATAAACA
TCCTGCAGGAAAATGCAGTGAAGTAGAAGAGACAGGGATATCCAGAAGGTTATGCAAAA
CATCAAGAGAAGATGAGAGGAGTCTATATGTCAGAATACACATTTCCACCTTGCCCAAC
AGTAGAAAAACATAAGAAGAGAAAAACATTAAAAATGACAAGGAAGTTAATGGAAGTCA
GCAATGTGATGGTGTTTGGAGGTGGAGCCTTCAGAAGGTAATTAATGCCCTTGTAAGAAG
AGGCCAGAGAGCTTGCGCACCTTCTTCTGCCATGTGAGGAGCCAAGAAGCCGGCTGTCT
GCAACCTGCAAGAGGACCCTCACTAGAAGCTAGCCATACTGGCATCCTCATCTTGGCCTT
CCAACCTCCAGAACTGTGANAAGTATTTTGTGGTTAGTCAATGGTCTATGGTAATT
TTTTTA

[illegible]

AGGTACGCGGGGCCGCCGATATCTCTGCCGGGTGACTAGCTGCTTCCTTTCTCTCTCGC
GCGCGNGTGGTGGCAGCAGGCGCANCCNANCCNTNTAAATGCANAACGACGCCGGCGAGT
TCGTGGACCTGTACGTGCCGCGGAAATTGCTCCGNTTAGCAAATTCNCAATCATCGGGT
GCCAAAGGAACNCACCGCTATTCTCATTNNCANNATTGNAANCGTTGGNCACGAAGTGT
TGTACAAAGGGTCAACCAAGGGCCAGGGTTTNTAAATNGGNCACAAGGTTTNTAAAA
AACCNTTTAATTGGCCTAATNCCTAACNGNGGGGGGCTCAATTATTGNGGTCAAGNGNAAT
TGNGGGGGGTGGAAANTTCNAATNGAATTGGAATTTCCCCCAATTTTNCCTNCCNCCGN
AATTGGGGGNCCCCANAGNGGACCCCTNAATTGGGCCCCAATTCNNGTACCTTCAAAAAG
TAAACCTTTTTTTTTGTACCTTNGGGAAGTAAGNAAAAATCCAACCAAGGTAATTG
GGTGGGGAA

CCGCGGTTGGCGGCCCGAGGTACTGGAGATT CATATATGCAAATATTCTCATGCAAGAAGT
TCCACAGTAACAACAGCAAAAAGAAAAAATTAGTTGTCCAGCCAGTGTCTGGAGCAAAAATG
TTTCTGGGGAAGATGACTCAGTCATTTTGTGGCGAGACCCCTTTGGTAGCTCCCCTGA
CCAGTCTTTGGGAGCCTTCTGGAATGATCTGGGTGAGCGGAGATGTTTTTGCAAAAT
GAAACTGAAGCTGAAAGAAAGGAAATTCAGTGAACCAAGAAGAAATCCAAGACCTGG

Table 1

GGAAGGAGGACTTAAGATGAAAGTGAAGCAAGAGAAAAATAATTAAANAANANANNTNNN
NNGTACCTGCCCCGGC

Sequence 2357

GACTACTATAGGGCTTTTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACAACCACCCTCA
TGCTCTCTACCCCCGAGGTTCTTAGAGCTAGGCTCTCCTGAGGCAATGCTTTCCTTCTCA
ATTCATATTCTTCCAGGAGGGGCACCAACGTTTTTTAAAATGATGTTGGCGACGAGGACG
GTAAATTTTCTAGATGACTGAAGGCTGACTTTCCCTTTCTGTGACTCTCTAGGCAACAC
CGTGACAGGAGAGACGACTCCCTTTCTCCTTTGTGACCACTTCTGAATCTGTGACCCG
AAATCACAGCCAGTAGCTTTGTGGTCTCCTGGGTCTCAGCTTCCGACACCGTGTGCGGGAT
TCCGGGTGGAATATGAGCTGAGTGAGGAGGGAGATGAACCACAGTACCTGCCCC

Sequence 2358

CCGGGCAGGTACCATATAGGTCCAAACCCAAAACCTGATTTTTGTTTTATGAAGTAGAAAT
GGTTGCATGGGCTCTTGGCTAGAACCATCTTGGCCATTGAAAATCAAGTTTCTGAGAC
TGAAAAGGAAACACACAGTGACACCATTTTGATGAGGAAGAGAAGAATTCTGAAGGAGCC
AGAATATTTTGTGAATTTTGACACTGAAGAAGAAATAAACATTGAAAAACAAAGCAA
AACACAGCAACAACAAAAAACTAAACCCATTTAGGTTTCCACTACAGATGCAAGAAAAA
AGTGCCCTTGCACGTTTTTCTGTCTGAGTGTGTGAGCCAAGGTTGCATGGGGGAATTCA
GGATGTATAAAACATAGACAGAGAGAAGAAGATNATTTTGCACCTCAGAAATAACCTTG
TGAACAGCTGAGTAGCCTGT

Sequence 2359

TCATATAGGGCGAATTGGACTCCACCGCGGTGGCGGCCGATGTACTTTTTTTTTTTTTT
TTTTTTGTACGGGATGGGTTTTTGCCATTGTTGTGCCAGCNTGGGTCTTGAATCCGGGG
GCNTGNAGGCCNGCCTCCCACCAACANAATTAACCTNNTNAGAGCAGCAAGTNCCCATAT
GGNAACACAGTCAACACTCCCAGGAATTAAGAATGTGGGACAGTNGGACATCTTTGGGGG
GCCATTATTCAGCCTGACCTGACTCAAGGTCTGGACCAACAAAGAAAAATGGGCAGCC
CAGCACTTTTNCCTCCTTCTCCTTTCATCCCATTTTTTACATTCAAGTNAAGA
TTGTGAGAACCAATTAAGAAAGAAAGCNAAGATTGGGGGCT

Sequence 2360

AGGGCGAATTGGAGCTCCCCGCGGNGGCGGCCGAGGTACAGATTGTGTCCACTGGAAAGG
TAAATGATTGCTTTTTATATTGCATCAAACCTTGAACATCAAGGCATCCAAACACTAA
GAATTCATCATCAAAAAATAATTCGTCTTCTAGGTTATGAAGAGATAATTATTTGTC
TGTAAGCATTTTTATAAACCCACTCATTTTATATTTAGAAAAATCCTAAATGTGTGGTG
ACTGCTTTGTAAGTGAACCTTCATATACTATAAACTAGTTGTGAGATAACATTCTGGTAG
CTCAGTTAATAAAACAAATTCAGAAATTAAGAAATTTCTATGCAAGGTTTACTTCTCAA
GATGAACAGTANGACTTTGTAGTTTTATTTCCACTAAGTGAAAAAAGAACTGTGTTTTTA
AACTGTAGGAGAATTTAAATAATCAGCAAGGGTATTTAGCTAATAGAATAAAAGTGCAA
CAGAAGAATTTGATTAGTCTATGAAAGGNTCTCTTAAATTTCTATCGGAAATAATCTTCA
TGCNAGAGATTTCANGCTTTGGATTAGCCAGTGGGAATAAAGAAATGGGCATTGGTTCCC
TATAATTGGGCTGGTTTATAACTTTTGTAAATATTACCTTTTTCTGGCTGNGGTTTTATA
CTTATCCCATATGCNTGGATGGGGAAAAAATTT

Sequence 2361

ACTNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTTTTTTT
TTTTTTTTTTTTTTTTTTGGAGTAACATCTCAGACAAGTAGATAGACAAGCCTCCAGC
AAACAATGGGAGGAAGAATGCCATGATTCCTCTTAAATTGTANAAGCTCTCTGGCCTCT
GCTGTGCATAATCTGCCTACCCATCAAATCACAAATTTGTTTGTATATAATATCATC
CTTCTCTACAGCTTTTATCAGCAGAGTTCTTAAGTTCTCAAGGGAAGTGTCTATTTGAGG
AACTATAAGGATTGGTCAAATATGCTGGAATACTGCAAAGGCTAAAAAATGAGATTCTTT
ATAAGACTATGAATCCAGTGAAGTAAATATTAGGCAAGACAACATTGTTTTATCCANATG
GCTAATTTGCATGACTCCGTTTAACACTTGATTTTTTT

Table 1

Sequence 2362

CCGCGGTGGCGGCCGAGGTACGCGGGGGTAGATGGAAGGAAGAACTTGTGTGCTTAGACC
TGACGCTGGGAGGAGATGCTGCCACCTAGGTTACTTGTAGGACCCTATACGGCAACCTCC
TTTGCCAGGAACCTATTATAAACATCCTGCAGGAAAATGAGTCTATATGTCAGAATACAC
ATTTCCACCTTGCCCAACAGTNGAAAAACATANGAAGAGAAAAACATTAAAAAATGACA
AGGAAGTTAATGGAAGTCAGCAATGTGATGGTGTGGAGGTGGAGCCTTCAGAAGGTAA
TTAATGCCCTTGTAAGAAGAGGCCANAGAGCTTGCGCACCTTCTCCTGCCATGTGAGGA
GCCAAG

Sequence 2363

AGGTACCACACACACAGGCACACGCAGGCACACACGCAGACACACACACATATAAACA
CACAGAGTTCAGTAGTCCGAGTTACTGATTTTCTTAGGATTCTCAAAGTGACAACACCGG
AAACAAGGTAATTCATGTAAAACACAAGGGTTATATCAGTAAAGAAGATGGGATCCCCG
AAGTAAACCGTGGAATTTGAATCAAGCTTCAAGAGCTAAAAAAGAAATTTGGAGTTTCA
ACATTCACCTTCTTGAATCCTTAAGAAATACAGAAGTTCAAAATAGAAAACATTACAGTT
TCAGGATACAAAAGTAGAAACATCTGAGATTAGCCTACATTTTAAAAAAGATATTGA
AAATTACTGTGCTTGTAAATACCAGCTTTTCAAACATCAATACCAGTATTGGCATTACCTA
GATC

Sequence 2364

GGGGCGAATTGGAGCTCCACCCGCGGTGGCGGGCCCGAGGTACCGCGGGGGCCGCGGTG
CCATTTCTCTCTCCAGAGGACCTTTCTGCCTAGGACTCATGATTGTCCCCTCCCTGCT
GTTGCCTAGTTTCTGGTATTAAGGAGAATCAACTCTCTGGATAAACGTGCCTTCTCCTG
CCACGGCATGCACCCACACATGCGAGCCTCCCGGGTACCTGCCCCGGCGGCCGCTCGA

Sequence 2365

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGGCCCGGGCAGGTACGCGGGGTCCCT
GAATTCCATCTGACTCTAATTTTATGAGAATTGCAGAACTCTGATGGCAATAATATATG
TATTATGAAAAATAAAGTTGTAATTTCTGATGACTCTAAGTCCCTTTCTTTGGTTAATA
ATAAAATGCCTTTGTATATATTGGATGTTGGAAGAGTTCAAATTATTGATGCCGCCAA
CAAAATTTCTCAGAGGGCAAAAATCTGGAAGACTTTTGGAAACACACTCTGATCAACTCTT
CTTGCCGACAGTCATTTTGTCTTGAATTTCAAGCCAAAAATATTATGGCATTTTGGATGCT
TTATTCAAGGGCTATTACCTCAAACCTTTTTCTTCTCAGAAATCCCAGGGATTTTCACAA
GGGATACCTTGTTATATATGGGGAAAACAAGCAAGGTTTAT

Sequence 2366

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCCGGCCGCCCGGGCAGGTACTTTACTCA
CCCTTCCTCTGACAGAAAAGGATGAAGTCAAGGGCCTGGTAGAGGCACCACTAAGAAAGG
CATCTGAAAGGACCAAGAGAGTGACCAGCAAGCATTTTTTGCAAGGCTGAGGAGCTGAC
AGCTTCCATGAAAGGCTGGACCACCCAGTGGTTGAAAAGCATCATCTGGGTTACCTTGTG
CTGCCATAAAACACACCACAGACTTGGTGACTTAACCACAGATATTTATCTTCTCACA
TCCTGGAGGCTGGAAGTCTGCAATCACGGTGCCAGCATGGTCAGGTTCTGGTGAGGGCCT
CTTCCTTCTCACTGTGTGCTCTTTCTTGTGCATGGGAGAGAGAAGAGAGCCATTGAACC
AAGNCCCTCTTACTGTCCCTCTTAAGAAGGGGCACTAAAT

Sequence 2367

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGGGGGGAGGAGTTA
GGGCTTAGGAAGAAGGAAATGCACAACCTGGGACCTGAGTTAGGCCTTCATCGTCGCGGA
CTCAGTAGACAGAGGCCATAGGTGCAGCTGTGATGGTAGAGGTGGAAGACTGATTTGCAT
TTTACCAGGTGAGACCTGGTTACTCAATTGGTTGGATGAGGGAAAGAGATGATAGCCAG
GGGCGGCATAAAACGGCAATGAGCTCAGTAAACAACCCCTTCCCGTGATCTTCGTGGCT
TCCCGCCAGACNTGTGACCAATATAGCAAGGAGCAGTCTTAAGGCGACACCGGCAGAG
AGGCAGAAAAAGATGGGCCCTTACNCGGTTAGTTAAGAAAAAAGAGGACCTGTTGCCT
GTCCCTCTAGCTTTGAACCTACAAGTGGGAGGGGG

Table 1

AGACTAGGTTGGTATTTGAATAGATATTGGTAATATCAGTAGAATCTTAATAATACATTA
GAAAGAAAGAAATCAGAGAAGATTCTTTATTTTCACTTGATACTGTGTTGTTACTTTC
AATGAGATAAGAAAGACAGGCCAAAGGAGGAACGTTTCAGGGGCAGGGGATGAGGAAGAAA
ACAAGGA

Sequence 2374

AGGTACGCGGGCATCCTTAGGAGACCTGAGTCCTCAAGAAAACCTCTTCTGGAAGTAGT
TGCTCCTTCAGAACGTTTTACAGAAAACACTAATGTAAAAGACACAATAATGTNAAAGA
CACAAAAGAGATGTGTTCAAAGACACATTTTCTGAAAACACAAAANCTNACAAATTCAT
CCTCCCTGGAGNGGCAAGTTTTTCNNGCCTGGGGNAACCTTGGCAATTTCNAAAACCTNT
NANGAAACCCCATACCTTGGTTTNAAAAACCAAAAAACCTTGAAGGAACCAATAATA
TTTGNGNGGAANATTAACCAAANCCAANAATTGGTTGGGGGGGCCCAATTTTGAACCNT
TTTGNGTTCNCCCCCTTGGGAAGNCCCCCAAAAAANAGGGCCTTTTTCAANANTTTTA
ANCCCCCCCCAATTTTGGGCCTTCNTTCCNGGTTTCCCCCCCCAAGGGGGTTTNGNAATTC
CAAGGNCCTTTTGGTAAANAATTTTTCNAAGGNCCTTAAACCCCGGAAGGNCANGCC
TTAACCNNGGGTTCTCCCCCTTNNATTTCCCCCCCCNAAACCGGAAGGGGGATTGGTTGG
AAGGAAAAAGGGTTTNCATTTGGGTCTTNCATTTGGGTTTAAATTCNTGGGGGAACCC
CTTTGGGAA

Sequence 2375

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTCATTTA
ATTAGGGTTGCAGAGGAGATGGAAAAACAAGCTGTTTGATTATGAAGGCAACACTTCTGT
CAGTAGAATTGCTTTGGATTGTAAATATGTTTACTTCAGAGGAAATCAGTCAGAGTGGAT
GGCTCAGCAAAACCCATCACAACTGCGGAAAAAGGAAGTGACTGGCTAGAGGTAAGGAA
ATAGTTTTCTCTAAGTTAACTGGCCTACGTGTGAATCGAACCTGCAACCTGGCCTCAT
TAGCACCAACACTGTGAAGAACAGCTGTGGCAGAGAAAGTGCCACGGCCCCACCCCATCA
CCAGATTCAGTAGAAAGGCCCTTGAATTTCTACAAGGGTTCAGTTCTGAACAGCTCCA
CTTCAAATCAGTATAGAATCCTCACAGTGAATCTGTGAGGGGAGG

Sequence 2376

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATGTGTCCAGGTTTC
TCTCTTTGAGGGATACGTGATGCCCTTTGGTGTAAAGCTGTGAGAAACCCCATGGTTTG
GGATTGTAATAGCATGATGCTGATGATGCTGGAAGAGGCATCAAACTCAGTTACTTCCC
AAGGTTTGACTTACAGACATAAACTTCCCAGGGACCATACTTTGTAGGAACCTAAGAAGG
TATTTGCCATTATTCCAAGGCTGGTTGTCTTCANAAACAAAACATGGGGATCAGTGGAG
CATTGGAAAGTGGGCATGCTGGGCACAGTTCATCCATTGTGGTCAAGAAGCATGTCACTG
GGAGAGTACCT

Sequence 2376

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATGTGTCCAGGTTTC
TCTCTTTGAGGGATACGTGATGCCCTTTGGTGTAAAGCTGTGAGAAACCCCATGGTTTG
GGATTGTAATAGCATGATGCTGATGATGCTGGAAGAGGCATCAAACTCAGTTACTTCCC
AAGGTTTGACTTACAGACATAAACTTCCCAGGGACCATACTTTGTAGGAACCTAAGAAGG
TATTTGCCATTATTCCAAGGCTGGTTGTCTTCANAAACAAAACATGGGGATCAGTGGAG
CATTGGAAAGTGGGCATGCTGGGCACAGTTCATCCATTGTGGTCAAGAAGCATGTCACTG
GGAGAGTACCT

Sequence 2378

CCGCGGTGGCGGCCGCCCGGGCAGGTACTTCATCTCTCTGACCTCATTGCGATGGCATTG
ATGGCTGCAACTGATCATAGCAACCAGCTGCGAATGGCTGGGCTCCAGGCGCTTGAAGAC
ATTATCAAGAAGTTTGCCTGTGCTGAGCCAGAATTTCCAGGTCATGCGATACTGGAG
CAGTATCAGGCTAATGTGGGAGCTGCTCTAAGACCAGCCTTTTACAAGATACACCATCA
GATATAATAGCGAAAGCTTGCCAGGTATGTAGTACCT

Sequence 2378

Table 1

CCGCGGTGGCGGCCGCCGCGGGCAGGTAATCTCTCTGACCTCATTGCGATGGCATTG
 ATGGCTGCAACTGATCATAGCAACCAGCTGCGAATGGCTGGGCTCCAGGCGCTTGAAGAC
 ATTATCAAGAAGTTTGCCTCTGTGCTGAGCCAGAATTTCCAGGTCATGCGATACTGGAG
 CAGTATCAGGCTAATGTGGGAGCTGCTCTAAGACCAGCCTTTTCAAGATACACCATCA
 GATATAATAGCGAAAGCTTGCCAGGTATGTAGTACCT

Sequence 2379

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACGGCCTGGCTACCTGTGGGTTG
 TTTGGATCTATCGGAACCTCATTGGAAGTGTGCACTTCTTTTTCATCCTCACCTCATTG
 TGCTAATCATCACCTATCTTTACTGGCAGATCACAGAGGGAAGGAAGATTATGATAAGGC
 TGCTCCATGAGCAGATCATTAAATGAGGGCAAAGATAAAATGTTCTGATAGAAAAATTGA
 TCAAGCTGCAGGATATGGAGAAGAAAGCAAACCCAGCTCACTTGTTCTGGAAAGGAGAG
 AGGTGGAGCAACAAGGCTTTTTGCATTTGGGGGAACATGATGGCAGTCTTGACTTGGCAT
 CTAGAANATCAGTTCAAGAAGGTAATCCAAGGGCCTGATGACTCTTTTGGTAACCAGACA
 CCAATCAAATAAGGGGAGGAGATGAAATGGAATGATTTCTTCCATGCCACCTGTGCCTT
 TAAGAACTGCCCANAAAAA

Sequence 2380

AGGTACGCGGGGGTGTGCTTAGACCTGACGCTGGGAGGAGATGCTGCCACCTAGGTTACT
 TGTAGGACCCTATACGGCAACCTCCTTTGCCAGGAATATTTATAAACATCCTGCAGGAA
 AATGAGTCTATATGTCAGAATACACATTTCCACCTTGCCCAACAGTAGAAAAACATAAG
 AAGAGAAAAACATTAATAATGACAAGGAAGTTAATGGAAGTCAGCAATGTGATGGTGT
 TGGAGGTGGAGCCTTCAGAAGGTAATTAATGCCCTTGTAAGAAGAGGCCAGAGAGCTTGC
 GCACCTTCTTCTGCCATGTGAGGAGCCAAGAAGCCGGCTGTCTGCAACCTGCAAGAGGA
 CCTTCACTAGAAGCTAGCCATACTGGCATCCTCATCTTGGCTTTCCAACCTCCAGAAGTG
 TGAGAAGTATATGTTTGTGGTTTAGTCAATGGTCTATGGTAATTTTTTATAGCAGTCCC
 AGCCAAGACAGTGCCTCATTTACTACATACCATTTATATTATATAGGCTCCTTTTCA
 AAACCCATGTTCAAATAAGAGATAAGATACTGAAACACATAACACCTTTTCGCTAGTTTTT
 AGTATACAAATATTG

Sequence 2381

CCGCGGTGGCGGCCGAGGTACAACATGGGGCTGTTTCATCCTTCGTCTTGCTGAAGATGGT
 CCTGCCACCAAAGATGGCAGAATTCATGTTGGTGACCAGATTGTTGAAATCAATGGGGAA
 CCTACACAAGGAATCACACATCTCGAGCAATTGAGCTCATTAGGCTGGTGGAATAAAG
 TTCTTCTTCTTTGAGGCCAGGAAGTGGCTTGATACCTGACCATGGTGATTGGGATTA
 ATAATCCTTCGTCTTCAAATGTGATTTATGATGAACAGTCACCATTACCCCATCTTCAC
 ATTTTGCTTCCATATTTGAAGAGTCTCACGTGCCAGTAATTGAAGAATCTTTGAGAGTTC
 AGATATGTGAAAAGGCAGAAGAATTAAGGACATTGTGCCTGAAAAGAAAAGCACTTTAA
 ATGAAAATCAGCCTGAGATAAAGCATCAGTCTCTTCTCCAGAAAAATGTGAGTAAAGAGG
 GATCCACCCAGCAGTCATGGGCACAGTAACAAGAAAAATCTATTAATAAGAAAAATGG
 TGTTACACNAAGAGGTAGATCGGNTAGTCCCAAAAAGCCAGCCAGTCACATTCAGAGGGA
 ACATTTGGATAAGATTNCTAGTCCNTNAAAAATAACCCCAA

Sequence 2382

GGGCGAATTGGAGCTCCCCGCGGNGCGGCCGATGGCCTCTTCTAGGCAGATCCGTCTAC
 AACTGGTAACAGCAACCATATCGAGTTTCTCTTTATACAATACCACGAGGCTTATCATC
 ATTGCCATGCCCTTAGTAACATCACTTTTTTAAATGGGCATTTTCAATGTAATCTGCA
 ACCTACATATAACATGCACTCTTTATTGAAGGCCGTACCTGCCCGGGCGGCCGCTCGAGA
 GACACATTACCTGAATGAGCAGGTGAAAGCCATCAAAGAATTGGGTGACCACGTGACCAA
 CTTGCGCAAGATGGGAGCGCCCGAATCTGGCTTGGCGGAATATCTCTTTGACAAGCACAC
 CCTGGGAGACAGTGATAATGAAAGCTAAGCCTCGGGCTAATTTCCCATAGCCCGTGGGG
 TGACTTCCCTGGTCACCAAGGCAGTGATGCATGATGTTGGGGTTTNCCTTTACCTTTTCTAT
 TAAGTTGGACCCTCGnnNAA

Table 1

TATTC AAGCTTATTCGATTCCGGTCNACCTTCGANGGG

Sequence 2383

CCGGGCAGGTACGCGGGGGGGGGGGGATTCTTGATCCATGCACAGCGATGTGAGCTGAGG
TGCAGGCACACAGACCTAGGAATTCCTAGAAAAATAGTCAGGAAGCATTAGACACATCAA
ATGTTAAACGAGTCCTGATTATGATGATAATGATGATGATTTTGGTGGTTGCAATAGCAA
AGCCTTAAGTATGAAGGAGACGTGCCAGCTGGAAATACAGGTAGACAATGAACAACCTGAA
TTTAGAGGACGAAGACATTGAAAGCATTGATGCCACCAAATTGAGCCGTTTCATTGAGAT
CAACAGCCTCCACATGGTGACAGAGTACCT

Sequence 2384

CCGCGGTGGCGGCCGCGGGCAGGTACACACAAAGACAAACCTGAACTTAATTTCAAGG
AAAACCTAAACCCATGCACAAATAATTGGTGAGCCTTCATTTCCCTGACTTCAAGTTTCC
ATGTGAGGACTCATGCTCTCTCCACTTTCTTCTTGGGAGGAGGGAAGATTTACCTAATGG
GTAAATTTGGGCAAAGCACATTGAGTGTGCTTGTGGCTCTGAGTCTCTTTGCAACAT
GTGTCTGCCCACAGTGACATGAGTTTGCCTTGACTGTCATGCCTGCAGGAAGCTGCCTGC
TCCTGTGACCATGTCAAGCAATTCCTTCTTCAACTGCAACTGTGTGTAAGAGCTTAGTC
TGAGAAGAAATGTTCAAGAGCTCACTGTGGCTGCACATCTGAGCCATGTCTTCCCATTAG
TTGTCATGAGTCAGCAATAAAGCGGGTATGTTGATGTCTATCAATCTAAT

Sequence 2385

CCGCGGTGGCGGCCGCGGGCAGGTACACACAAAGACAAACCTGAACTTAATTTCAAGG
AAAACCTAAACCCATGCACAAATAATTGGTGAGCCTTCATTTCCCTGACTTCAAGTTTCC
ATGTGAGGACTCATGCTCTCTCCACTTTCTTCTTGGGAGGAGGGAAGATTTACCTAATGG
GTAAATTTGGGCAAAGCACATTGAGTGTGCTTGTGGCTCTGAGTCTCTTTGCAACAT
GTGTCTGCCCACAGTGACATGAGTTTGCCTTGACTGTCATGCCTGCAGGAAGCTGCCTGC
TCCTGTGACCATGTCAAGCAATTCCTTCTTCAACTGCAACTGTGTGTAAGAGCTTAGTC
TGAGAAGAAATGTTCAAGAGCTCACTGTGGCTGCACATCTGANCCATGTCTTCCCATTAG
TTGTCATGAGTCANCAATAAAGCGGGTATGTTGATGTCTATCAATCTAATCTATGTTC
TGAACCTCAGG

Sequence 2386

CGCCCGGGCAGGTACCCGGGAGGCTCGCATGTGTGGGTGCATGCCGTGGCAGGAGAAGGC
TTCCGAAGAGCCATGCATGCGTCTCTGGCTGCTCCAGGTGTAATAATGCCAGGGAGGG
GACAATGATGAGTCCTAGGCAGGAAAGGTCCTCTGGAGAGAGGAAATGGCACACGCGCAA
GCACGGAGGCATGAGGGGCCAGGGTCCTGGAGGACACTGGGCCGGGACAGATCAGACTCC
CCCCGCGTACCT

Sequence 2387

AGGTACGCGGGTTTCCTCAACATGGCTGCGCCCTTGTCAGTGGAGGTGGAGTTCGGGTGA
GTCACAGAGCTGGGGCGCCGTGGGGATGGATTGAAGTCGTCGGGGCCAGAATTCCTTCT
TTGCCGTGGGGCCTGACA

Sequence 2388

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCNCGCCGGGCAGGTACGCGGGGGGGGGG
GGATTCTTGATCCATGCACAGCGATGTGAGCTGAGGTGCAGGCACCAGACCTAGGAATTC
CTAGAAAAATAGTCAGGAAGCATTAGACACATCAAATGTTAAACGAGTCCTGATTATGA
TGATAATGATGATGATTTTGGTGGTTGCAATAGCAAANCCTTAAGTATGAAGGAGACGTG
CCAGCTGGAAATACAGGTAGACAATGAACAACCTGAATTTAGAGGACGAAGACATTGAAAG
CATTGATGCCACCAAATTGAGCCGTTTCATTGAGATCAACAGCCTCCACATGGTGACAGA
GTACCT

Sequence 2389

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTT
TTTTGGGGAGAAGATCATGATTTCTAGGACAGGACTAATACATTAGCTGTGGCTATT
ATCAAAGAGCACCAANACCTTAGGTGGGGCAACCAGACTGGCTATGGGGCTCGATGTAAG

Table 1

CCAGACCCATGACCCATAAACTATTTAGGTAGGAAGTAAGCAATACTATAACTTGGACT
CGAGGGGGAGCAAAGGGCACCCCTCAATGGTGATGGCTGCCACTTGGTCTCAACACTG
TAAACTTGGGACTTGCT

Sequence 2390

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTAATCTTTTTTTTTTTTT
TTTTTTTGGGGGATTACACAATNNAAGCCCCAAGGATATTCATCAATTCTATTCTT
TTCTCTTATGACTATTTCTTCTTTATCCTAAATTGTCAAAATCATCAAGGGGCATTC
TGATACANAAGCACTCTGATACANAACACNCANTTAACATGAAAATTAACGGTTAACAA
AAAAGGAAAGTTACAGAGGATAAAATACCTTTAGCCTTGACCCATTTTACTTCTTTCTT
GGGCATACAGATACATGCTAATATCCATACCTTGCTAAATATAAAATACCTGAGAGTAG
CTGGATGGAGCCCAATTTTGTATANACAGCCTGTTAGTTTCTCCATCTCTATATGCATTG
GCATATAAAAGTAAGAGAAAATAACAAGTTCTTTTTAAATGTAACCTCTTTTTTGAA
AATATGCATATAAGACTATGCATTTTAATTTTCATGAATACTGACCTTCTGTAAATGCAA
ATACCCATTTTCTACATTACAATATTACCCAAGGGGGAA

Sequence 2391

CGAGGTACTTTTTTTTTTTTTTTTTTTTNGATGCTATTACTGAATAACTCTTTCTGA
GATGGTTGTTGTATAGTAAACCATGAGTCTGGCATGTCTAAAATTGTCTTCATTTCTTTC
CATAAATTTGAATGTTTTGCTGTGTAGTCATTCAAAGTTGAAGACAATGTCCCATCTTT
TGACAGAAAGGGAAGGAAGGATATGTGCTCAGCCTGCCAGTTTGACCCACTTTTGAAAAG
GGCTTTGTGGTCTCTACCAATGAGAAGTCTGGTGCAATGTGATTTTCTTAACCTTTATAG
GAATTGTTTGTTCCTCTTTTCTGAAAACCTTNGCTTTCATCAGGCTCTACCAGCCTTG
ATACTCTGTCACTCACTGGGCATGGTACCTGCCCC

Sequence 2392

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTAATTTACTCAC
CCTTCTCTGACAGAAAAGGATGAAGTCAAGGGCCTGGTAGAGGCACCACTAAGAAAGGC
ATCTGAAAGGACCAAAGAGAGTGACCAGCAAGCATTTTTTGAAGGCTGAGGAGCTGACA
GCTTCCATGAAAGGCTGGACCACCCAGTGGTGAAAAGCATCATCTGGGTTACCTTGTGCT
GCCATAAAACACACCACAGACTTGGTGACTTAAACCACAGATATTTATCTTCTCACAATC
CTGGAGGCTGGAAGTCTGCAATCACGGTGCCAGCATGGTCAGGTTCTGGTGAGGGCCTCT
TTCTTCTCACTGTGTGCTCTTTCTTGTGCATGGAGAGAGAGAGCATGAACAAGCCCTCT
ACTGTCCCTCTTAGAAGGGCACTAATCCCATATAAAGGCATTNCACCCTTCTGACCTCGG
GCTAACCCCTAGTTAAGTACCTCGGCCCGCTCTAANAACCTAAGTGATCCCCGGGCTTGC
AANGAATTTGATATCAAAGCTTATCGATACCCGTCNA

Sequence 2393

CCGCGGTGGCGGCCCGCCCGGGCAGGTACGCGGGGAGAACAGGCGATATCTTCACCATGCG
CACAATGAAATCAATACTCAGAGAAGGCAGATAATTCTCCACGAAGCCAGAAAATAA
AATGAACAACCTGGGTGAAATGTCCACCAGACGGTGTGATTTAGTAGCCAGAAAGC
TGCCAAGGGGTGAATGACACTATCTGAAGATATGAACCAGTTTGTCTCCATAGGGAGG
ATTTTCATCAACAGGAAACAGATGCCTGGAAGGCATTGGATTTGCTAAGTGTCTATGCCAT
ATGATTCTGCTGTTTGCGTTTGATTTAGAATGCTGAGCTGACTCAAAGTCAAACATTTTC
ATATGTTGAAATCCTGACTCCAGCCTGAGGGCATTACGAGGGGCTCTGGGAGGTGATTA
GGTCATGAGGGTGGAGCCCTCATGAATGGGATTAGTGCCCTTATAAAAGAGGCATCAGA
GAGATCGTTTGCTCCTTCTGCCATGTGAAGACACANCAATGGATGACTATCANGGTATTA
AAGAAAGAACA

Sequence 2394

CGCGGTGGCGGCCCGCCCGGGCAGGTACGCGGGGGGATGAGTCAGGGAGAGCTAGTGTG
GTAGCAGTTTCTAGAGCTGTTTTCAAGGAATGGAAAGAGGAGTGGGGAAAGGATTTAGGA
TCTATGGGGTTGGCTAGGTTTCCCTTTCTGAGTTTATATAATGGTTTCGAGAATAAATGT
TGAAGGAGCANGAGGGTGTCTTGTTGAGAAGATTTAAAGGAGGGGCTACAAAGTAGAAGG

[illegible]

Sequence 2095
CCGCGGTGGCGGCCCGCCGCGGCAGGTA CTGTGATATCCACATATTTTGAGAAAAATC
CCAAGCCAGGCGAATGTGGATTGGAATAAAGACATAGGCAGTGTATACCACCATAGCAAT
AATGGTTAATAAGATGGCGTTAAACATAGATCGCTCCAGGGCTCTAAAACAGCACAGCA
GCTAATGATTTGGTATTGATAGTAGAGCCAGGAGAAATATTCCTTCACACGCCTCAAATC
CATGGTTGGCTCCTTCAAGCTGCAGTAAGTTTGTCTAAGAAAGTCCAGGTCTGGTCTT
CAGCCTTGCTCCTTCGCGAAATGATCCTGTGTGGGTTAAGTTCTCCTCTCTGGGTGCTG
TTTCCTCATCTCCAGTTGGGTGTATCTCCCTGCGGCTTAGGTGAGCGCCGAGGCTTGG
CTCCTCCCCAGCTGCTGCGAGCTTCCCACTGCCCGCGTACCT

Sequence 2390
TGGCGGCCGCCCGGCAGGTACTTTTTTTGNTTTTTNANTCNTTTTTANAACAAACA
CAAAAAAGTTTTATTTAAAAAAGAGTTTGACATTTAAAGTTTGAAATAATATTAAAGT
GACACCCTGTTTCTTGGAAACACAATGCANAACCACAACTCTGAGACTTATTATAGCG
AAAGTATTGTCATTCAGTTCAATCTAATGGTATGAGGTAGCTTTGAAGGCCAAAAGAAA
CTAGTTTCTAATTCTTATTCTTCTCCCCACTAGACTTGTGGCCTAGGTAATTTTSTAATC
TTTCTGAGTCTGTTTTCTCATCAGGAGCAGGATAATTCTAAGTAATAGATCATATGTAG
AAGTGAATATGATCTCATGGCAGAGGACATNAACCATAGTTAATTATTAAGAATATATTT
ACATTGAGCTATCCTTTTATNTACTTTAAAAA

Sequence 2397

CCGGGGNTTGGGGCCGGGGTCNCGGGGGGAAGGCCAACCCCCCAAAGGGGGGTGGGCC
GAAGGGGGGCCACCCAAAGNTNNCTTTGGNTGGGGGGCCGGCCNTGGTTGGTTGGGGNCA
ACCCCAANTTTNCAACCNAGGNCAAAAGGGTCCCAAATTCCTTNTGGGGGGGTNCATTG
GTTAAGGNTGGGCCAAAGNCCAAAGGGGAAAGNCCGGNGGCCCGGCCCCCTTTTNCCTTN
TGGAATAAATTCNTTCCCAACCCCTTAAAGTTNGNAACCCAAACCCCAACNGNAAA
ACCCTTTTGNAAAGGTTGGGTTGGGTTGGGGGGTTCCCCCTTTTGGGCCTCCCAAAGNG
GAAATCCCTTCCCCCTTTCCGGTTTTGGGCCAAATTTAAAAAAAATTGGGGTTNCN
CCAAGGCCCTTNCCGGGTTNTTAAAAAAGGGGGGAATTTGGGCCCCCCCGGGCCGGGA
TTAAACCNCCNTTCCGGGGGGGGNCCNCCNGNNGCTTTTCCGTTTAAAGGAATAACCTT
TAAAGGTTTTGGGGGGGAAATTTCCCCCCCCCCCCGGGGGGGNCNTTGGGCCNAAA
(GGGGGGGAAAAAANTTTTNCNCGGAAATTTAANTTTCCAAAAAGGNNCCCTTTTAAAT
TTCCGGGNAATTTAACCCCGGTTTTCTGGAAACCCCTTTCTNGNAAAGNNGGGGGG
GGGGGGGAGGGCCCCCGGGGGGNTTTTAAACCCCCCAAAGNNCCTTTTTTGGGTT
TTTTCCCCCTTTTTTTTAAAGNTTGGGGAAGGGGGGGGTTTTTAAAAAATTNTTG
GGCCCGNCCCGNCCCTTTTNGGGGGCCCCGGT

Sequence 2398
ATTACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCTGGCAGGG
CCAGTGGCAGGAAGGGAGGGACAAGTGGACAGTGGTGTGTCTGAATTGTAGAGTGTTAGA
TTCCAGGTCATTCCCATCTGCTCAATTCATCAGCCGCAGAGTTC AAGCTGTCATCTAAG
CCCAGGGAGGTGTAAGGAACAGGCCACATCTGGTCTTGGAAGTATATGCCCAGGCATT
AAAGCGGATCTTCTCTTTGGGCCATGGGTGGATTCTCTGCTCAAGCAACCTTCATCTC
TTAAGCTTGTTGCTTGAAATTCTGGGACT

Sequence 2399
AGCGGCCGCCCGGGCAGGTACGCGGGGGTTGGAGACCATTGCTCTATAGCAAGACCAGAC
TTTGCCCTTCCTCCTCTCAGCCTACTCAACGTGAATATAATGAGGATGAAGACCCTTGTA
ATGACCTTTTCCACATAATGAATAGCCATTGGGAGACACACTTCTGAACACCACCACTG

Table 1

GAAAATCACACATGCTGAAATGGGAGAGTTCCTGACCCCTTGCAGGATATGTGACAGG
AGTGTGGCTCATCTGTTCAAGCTGGAGTGCATACTCAAACCCCTTATGAGACAAGGAGTAT
GCAGACAGGAAGGTGCAGGGAAGTGGGGAAGCAAAATATAAACTAGTTAA

Sequence 2400

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTT
TTTTTTTTGTAGAGATGGAGTCTTGCTGTTTTGCCAGGTTGTTTTCGAACTCCTGACC
TCAAGCAATCCTTCTGTCTCTGCCTCCCAGAGTGTGGGATAACAAACATAAGCCACCAT
GCCCAGCCAATCCTCAGTTATTTCTAATACTAGATAATCTAATTGCTCACTTATTACAT
TATTTTCCAATTAAAGGNGNAAGATTTAGACATTAAATTTAAGTTATAAGTGTTCCTT
GAACACCTAATTGNAACTGNAACTAGAACAGGGGATCATTTGGTGACTATTGGAAAGTTT
CAGGTGGATTTTTAAATNATATTTTCAATC

Sequence 2401

CGTGTCTCAGATCTCAGGCTGCTCAGCTCCATGTAGGCTGTGTCTGTAGATGTGTCCTC
GGTCATGGTGACTCTGCCCTGGAACCTTCTGTGCGTTGATTGTTTCACCATCTTCAGGATC
AAAACCTCCCTTCCACTCAAGCCCTTTTCCAGGGAGCCTGTCCGCACCCAGCTGNCATGG
GATAAATTTCANGTGAGGGGTGTTATTTCCCGGAAAACCTTTGGCAGNGNAAGACCNITCA
ACTTGGAGGGCCCCCAAGGGCTTTNTTTCACCCCTCAAGGCCCCCCAGGAACCTTGNTACC
CTTCGGGGCCCCGGCTTCTTAAGTAAACCTTAAGGTTNGGGGATTCCCCCCCCCGNGGG
GNCCCTTGCCAAAGGGGGAAAATTTTTCNGTAAATTAATTTCCAAAANGCCCTTTTAAAT
TCCCGGAANTAACCCCCGGTTTCNGGAAACNCCTTNTNTAAGGGGGGGGGGGGGGGGCC
CCCCGGGGTTTACCCCCCAAACCTTTTTTTTG

Sequence 2402

TCCACCGCGGTGGCGGCCGAGGTACGCGGGGAGGATTAACAGAAGCAGATTAACCTCAGA
AATCCTGTCTGGCTGGCAGATTTCAAGTAAAAAAAAGGTGGGTGGGGGGACCCTTTT
CTTTCTAGTTGTCTTTAAGGGAAAATTAATTTACTTTTTTTTGTCTGGCCCCGAAAT
TTNTATGGAGNATATCCTCNTCACCTTGCTNTCCACTTTTGAAACNCGTTAAAGGCT
NCATCAGCCTGGTCCAGCTTCTGGAANTGNAGGGAGNGGGGGAAGNAAGCCCCNTGGGG
GTCTTTTCTTTTGAAAAGGGNAATTTCCCGCNTTGGCTTTGNAGGGGGCTTGCCCCCTCC
CTCATGGGTGGTGGCGTGGTCCGNTTTTCTTTCTTTTCTTTCNCTTGACCCGCCATTT
CNTTTTGGTTGGNATTAATTCCAAGGNAGGGGGTTTAAACCTTTATTTGTCCAAAAAAA
GGCCCAATTTTCNCAAAGGGGCCCGGG

Sequence 2403

AGGTACTTTTTTTTTTTTTTTTTTTTTTTGTTAATTACATTTATTTTATTGAATAATG
GATTGTCAACAGTAGTTATAAAATAGTGCATGGCTTAATGTGTTAATTATCATAAGTAGA
ATCCACAATTAAGTTTGATATTTGCTGAATACTTTCTCTGCAAGGATATAAAAATTAAT
CATCCACAACCTAATTAACCTAAATTTCAAATTAATTCACATATGNGGGGTGTTTTACTA
TCTTTTGCTTTTCGGTAATGTTGGTGACATTTAGTAATGCATTATGAACAGTTATTATA
CAATGTGAATTAATTGGGTAATACTTTAGTGTCAACCATGTTTAAGGAACNTTTAGTTT
A

Sequence 2404

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGATGCTGCC
ACCTAGGTTACTTGTAGGACCTATACGGCAACCTCTTTGCCAGGAATTTTATAAAC
ATCCTGCAGGAAAATGAGTCTATATGTCAGAATACACATTTCCACCTTGCCCAACAGTA
GAAAAACATAAGAAGAGAAAAACATTAATAAATGACAAGGAAGTTAATGGAAGTCAGCAA
TGTGATGGTGTGTTGGAGGTGGAGCCTTCAGAAGGTAATTAATGCCCTTGTAAGAAGAGGC
CAGAGAGCTTGCGCACCTTCTTCTGCCATGTGAGGAGCCAAGAAGCCGGCCTGTCTGGC
AACCTGGNAAAGAGGACCCCTTACTTAGNAAGCTAGC

Sequence 2405

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTATTATTCTTTCCTTT

Table 1

TGTGTATGTTTGAAATTTTCCATTATAAAAAGGACAAAAAAGAGAGAGAAAACTAA
AAAAGAAAAATAGTGTTGCGCTTGTTAGTAAAACCAATCTTAAGGCCAGTTACTAAAAA
GTAAACTCCTACAATTTTGAATAGCTATTTGCTAATACAGTGATTTGCTGCCCTTCTTGGG
GTTAGTTTAGCCTGTCCATTCTTATTTAACTTGCTCCCTTCCCTTCCCTTTTAAATAAAGT
CCTGCCTAAGCTCCAGGCTCTATTTTCCACCTCTCCCTAAGATTTAGGATTTGTTCCGT
TTTAAGGTCAGTGGCCCATATGCTTCCTGTTCTCC

Sequence 2406

AATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCTGGACTCATACCTGAAAGCAGTGTT
CAACCTTAGCAAAATCTCCAACCGCATGAACAATTTTCTACATCACAACGACCTGGT
TTTCAAATTCAGCTCTCAAGGCCAAATCTTTCTAAATTTAACCAAGAAGCTTCATCAGTT
CACAGAGAAAGTAATCCAGGACCGGAAGGAGTCTCTTAAGGATAAGCTAAACAGATAC
TACTCAGAAAAGGCGCTGGGATTTTCTGGACATACTTTGAGTGCCAAAAGCGAAAACAC
CAAAGATTTCTCTGAAGCAGATCTCCAGGCTTGAAGTGAACGTTTCATGTTTGCAGGGA
CATGACACCCACATTCCAGTGCTATCTCCTG

Sequence 2407

CGCGGTGGCAGGCCGCCCGGGCAGGTACCCGTTAACTTCCAATTAAGTATTTGACAAC
ATTCAAAAAGAGTNATAAACTNNGGCTTAATTTTAATAATCAANACCCCTNCTAGCCTTA
CTACTAATAATTATTACATTTTGACTIONCCACAACCTCAACCGGCCCTACATAGGAAAAA
ATTCACCCACTTAACGAGGTGCCGGCTTTTCGTACCCCTTATTATCNCNNNGCCNCG
GNCGGTNCCNCTTTTNCCTCCCAATAAAAAANTNTTCTTTCTTAANGGTAAGACCTTA
ATTTAANCCCTTTTCTTTTAATTATANTTTTNGGAATCCCTTAAGGNAAAAAATNTTG
GCNCCNCTTCCCTTTTTTTTAAACCCNCCCTTTAACNNCNATTTGNAAGNCCNCTTT
NNCNAAAAAACCAAAATCTTTANAACCCCNCTNGNCCCCAACCTTAANAATTAAGNGTTTT
NATNGTGTCAAATTCCTTTCTTTTAAATTTTAAAAA

Sequence 2408

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGCTCTCACT
GCTCCCAAAAATGGCGGACGCATTCGGAGATGAGCTGTTGAGCGTGTTGAGGGGCGACTC
GACCACTGCGGCGGGAACCAAAAAGACAAGGAAAAGGACAAGGGGAAATGGAAGGGGCT
CCAGGGTCTGCAGACAAGGCAGGGTAAGGAAGAAGTTCAGTTGTTGCTTTTATTTTTT
TCTCGGTGGGGAGGAAGAAAACACTACTCTTAGGAAGAGCACCGAGAAAGTGAAGTGT
ACCTGCCCCG

Sequence 2409

TANCACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCCGGCCGCCGGGCAGGTACT
TTTTTTTTTTTTTTTTTTTTTCTTTNAATGCTGTTCACTGCTACCCATTTAGTCAA
CTTGGACCACCCNTANAGGGGCTTCACTGTTATTTTCAATACATTGTCACAGGGACAN
AGGAGGGTGTAGGGAACNTGTGACTAAAGAGTTTTCCATAAATGGGTGGACCTCANTT
TACAAGCATTAAATTTATGGGCCAGGAGGGGAACANATCATGATTAGGAGAGTGGA
NAAAGATGACAAATCACTTTAAGTCANACAAACCTTTTNTNTACCTCGGC

Sequence 2410

GTTTACCCGNCCTGGGGGGGGGNGGAAAACCATATNGTTGGTTGGTCTNTTAGGGAACCCC
TTGGTACCCGNCCTGGGGGGGNAAGGGGGAAAGGAATTGGCCATGGGCCCAACGCCTTAA
GGGTGGTTTAAACCATGTNGGTGATGGGGGAACCCCCCTTTAATTANCCGGGGGCAAAAA
CACNTANACTTTTTTGTCTCNANGGNGCAAACCTTAAATTTTCTAAATTTAAANAACCA
ATTNCTCCTTGCCATGGGNANAAAAANTGGGAAGCTACCTTAAATNATTTGTTCCANGG
CAAAANTAACCCAACCAATTNTTTTCCACCCCAACCCCTTTTGNCCCCCAAAAACCAA
GGTTAATGNAAAAAAAACCAATTANATNGGAAAAAGGNAAAGGAAAAANAACATANC
CACTTTTATAANAANAANATTTGGNAACCCAAAANGGTGGGAAAAAGGATTTAAANAT
TTGGGGGGAAAAAGGCCCAAAATTTGNGTTGGAATTTGGGGGTTGGTTTTTTTAGGGGA
AGGNGGGTTGGNGGCAAGNCCNCTTTTCAAAGGAAAAAGGGTTNATAATTTTAAAAA

Table 1

AATTGGCCCCNCCCTTTTNGGTTATAAAGGAAAAAGGGAAAGGGGGCCCCCAAGAAAAGN
AAGGCCCTTTTGGGCCGGCCAACCCCTTTTNCCTTTTCCCCTTGGGCCCCATTNGTTT
GGNAAGGGGGNAAGGCCCCCAAAAAGGNAAAAAGNCCNCCGGGGGCCTTGNNTTCCTT
GGCCCAAANCCCTTTGGNCCNTAANGGAAGGGGGGACCCCC

Sequence 2411

CCGCGGTGGCGGCCGCCGGGCAGGTACTTTACTCACCCTTCCTCTGACAGAAAAGGATG
AAGTCAAGGGCCTGGTAGAGGCACCACTAAGAAAGGCATCTGAAAGGACCAAGAGAGTG
ACCAAGCAAGCATTTTTTGCAAGGCTGAGGAGCTGACAGCTTCCATGAAAGGCTGGACCAC
CCAGTGGTGAAAAGCATCATCTGGGTTACCTTGTGCTGCCATAAAACACACCACAGACTT
GGTGACTTAAACCACAGATATTTATCTTCTACAATCCTGGAGGCTGGGAAGTCTGCAAT
CACCGGGTGCCAGCCATGGGTCAAGTCTGGGTGAGGGCCCTCTTTCCTTCTCACCTGT
GTGCTCTT

Sequence 2412

CCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTT
 TTTTTTTATTCTTTGGGCAGCTAAATCTAGGATGGTGTTAAGTTCTTCATTTGTCA
 ATTATATATAAAAAATTAGAAACACATGAATCTGCATTTCCTGGATGAGATAGTTAATA
 ACAAATATTTCTCAATATTTGTATACTAAAACTAGTGAAGGNGTTATGTGTTTCAGTA
 TCTTATCTCTTATTTGAACATGGGTTTCTGAAAGGAGCCTATNTAATAATATAAATGGTA
 TGTAGTAAATGAGGGCACTGTCTTGGCTGGGACTGGCTATTAANAAAAANATTACCATTAA
 G

Sequence 2413

TTTTTTTTTTTTTTTTTGGCTTTCTCTCTTTCCCTTTCAGGCATCTCCTCGTTTAA
TTTTCTGTAACCTCACAGAGTGCTGCAAATAATGTTAGGGCTTTGCAGTTTATTCCTTGC
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ACACAAGGAATGTAAAGCCGATTTTCATATCTCCTTGAATCAGGAACNTTAATTAATCATA
TGATGAGAATGCACCGTTTNTTTACCAGGNCAAGGAGGCTGCCAAGAANCCTTCTGAG
GTTTAAATAATGCACCCNCTNTGGAGGGGAGGGAAAAAT

Sequence 2414

CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGGCCGCCGGGCAGGTACTTTTTTT
TTTTTTTTTTTTTTTTTGGGCAATACCAGCTTTCACCCTGTCTCTGCACTGCTTAGCC
TTGGCTCTGCTGAGTTGNGCAACACATTCTGAGAGATGCCATACAATGCTCCAGGCAAAC
TTATAGAAAAACAGGAATGAGTGATTTTATACGGGATGTGTTTCAGCTGTCCAATTCAA
ATAAATCAGCTCCAGCTGCATTCCTTAATTTGNGAGCCCAAACTGNTTGCACTTTATA
CATTAATGAATATTTTTTTAAAAAGGAAATTAGCCTCTATCATGGAAANACAGTGGCT
NTCTAACCCCTTTGNGGGTCTTTCTCCCTTTAAAAAGGC

Sequence 2415

CGACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATAGTTTCACAT
TTTTTGAAGAATTCCACAAAAGAAGAAGAAAAGGAAATCTAATCTAAAAATACTATTTT
GGAGGGGATAGCAGATTGAAAATGAGAATTTTGAAAGTTTCAATACCAAGTGGGGAAAGCA
TTTGCTAGAGTTTAGAAGGACAGCATATGGTACACCAGATCACGAGACATCGTTTCATAC
TTCCCAAATAGTTTTATTTTAGCTTTGAAGTCAAGTTACCAAGGCCAAACTTGTCTT
ACAAGCAGAAATTTATGTCTTACCAAGATCTCTTACACCTTTCTGGGCCTATTCAC
TGCAGAGAGGAGTGCAAACTGTAACCAAG

Sequence 2416

ATANGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTA
CTNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTACTACTTTCTTCTTTCTTATTTTCTCATT
GGCCTCAGGCTTGGGAATATCTGGAATCAAACATAAAT
TCACCTCTCTCAGCACTCTCAATATAGTCTTTGCCAAC
ACCTGATGAGACATAACTATTGACCTTGCACTTCTNT
TTTTTTTTTTTCATGGTTGCACTTANGAGGTAATTTCT
TCAGCATTTANAGCATATCCTCTCATNATTTANANAA
AACT

Table 1

TGGTCAAATGACCTTTTAAATAAAAGATGGTTCTTACCTTCTAATTTTCCACTTATTTTA

Sequence 2417

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTT
TTTTTTNCAAATGTGACAGGCATTTATTTTAACAGAGAGGAAGGGGAAGACAAAATATC
ATAAAATGTGTGGGTTTTCCCANATGACTCTGTTGAAAAAACAGGAAATGCAGAGCGG
GGGGACAAATGGAGGAGAGATNTTAAGTAGAACATTGCTGACTCAAGGCCGTCCAGCTTC
AGNGGGAGTTCTGATTAGGCCCCATGTNTGCCTGATGCCACCTGCAAC

Sequence 2418

CCGCGGTGGCGGCCGAGGTACGCGGGGACGCTGGGAGGAGATGCTGCCACCTAGGTTACT
TGTAGGACCCTATACGGCAACCTCCTTTGCCAGGAACATTTATAAACATCCTGCAGGAA
AATGAGTCTATATGTCAGAATACACATTTCCACCTTGCCCAACAGTAGAAAAACATAAG
AAGAGAAAAACATTAATAAATGACAAGGAAGTTAATGGAAGTCAGCAATGTGATGGTGT
TGGAGGTGGAGCCTTCAGAAGGTAATTAATGCCCTTGAAGAAGAGGCCAGAGAGCTTGC
GCACCTTCTTCTGCCATGTGAGGAGCCAAGAAGCCGGCTGTCTGCAACCTGCAAGGAGG
ACCTCACTAGAAGCTAAGCCCA

Sequence 2419

CCGCGGTGGCGGCCGCCCCGGGCAGGTACGCGGGGGCAGTGGGAAGCTCGCAGCAGCTGGG
GAGGAGCCAAAGCCTCGGCGCTCACCTAAGCCGAGGGAGATACCCCAACTGGGAGATG
AGGAAACAGCAACCCAGAGAGGAGAACTAACCCACACAGGATCATTTGCGAAGGAGCAA
GGCTGAAGAACCAGACCTGGACTTTCTTAGGACAACTTACTGCAGCTTGAAGGAGCCAA
CCATGGATTTGAGGCGTGTGAAGGAATATTTCTCTGGCTCTACTATCAATACCAAATCA
TTAGCTGCTGTGGCTTGTGTTTGAAGCCCTGGGAGCCGATCTATGTTTAACCCCATCTT
TACTAAACCATTATT

Sequence 2420

TGGGGTAAGNCTTTCTCANCTCCGTCCGNGNTTGGGTACAGGTCTCCGTCTCNCCGGGGG
TCCANGGGTTTACCCGTCCGGGGGGGGNACCNTTGGTACCCGCCTTGGGGGGTAGGG
GTAAGTAATGGCCTTGGTCNCCACCCCTTTAAGGGGTNTAACCTTNTGGGTTANGGGGAA
CCNCCCCTTAATTACCCGGGGCNAAGGCTCCTTCNCCTTTTGGGGCNCNAAGGGGNA
ACCTTAAATNTTTATTNANAACCAATTTCCCTGGGCCAAGGGGGAAAAAATTTGG
CCAAGGTGGGANAAGGTTANGGTAAGGGGAAGGTAACCAANGGGGGGTAATNAATTC
CTCCCAAAGNAANAAGGGGTTNTANTTTGGCCCAAATANTACCCAAATTTCTAATAN
GNGAAGNAAAAAGGNAATTTGGAAAGGGAAGGGGGNAAGGTTCTTNAATTTAATTGGGT
TTCCAAGGGAAAAATTAANCCAAACCCAAATTTTTTTTTCNNCCCCAAACCCCTNTTTGG
GCCCCCCCCAAAAACCAAGGGTTGAANGNTAAAAANAANAACCCCAATTTTTNTNN
NNNACNACAANNACNATATAATATCATNANAAGAATAANATNATTATCACATNANNACAA
TNANGAGAANAATAATNANAANGANNNGGGGNTTTNTCCCCCTTTNGGGGGNCCCCCGGN
CTTTTTCNTTTTAAANAGAAAAACCCCTTAAGGGGNGGTGGGGGGGGAATTNNCCCCC
CCCCCCCCNGGGGGGGGCCCTTTGGTCCCAAAGGGGGGGNAAAAAATTTTCCCGNNA
ATTTNNTTTCNAAAAAGGNCCTTTTTATTTTCCGGGGAATNTAANCCCCNGGTTTT
NNGNGAAACCCCTTTCTTTAAGGGGGGGGGGGGGGGGGG

Sequence 2421

TGGGGNCCGGGNGTCCGNCCTTGCTTTTGCNCCGGCNGTGTGCCCTTGCGGGGCTTGCAACC
NTGGNNACATTGNGGCTTGGNCGTCTTTCNNGGGTNTCTGTTNTACNGAGACCTTGGGCN
GTGGTCCGTAAGTCCGNGNTTATTNCAANGACATNCAAACCTNCAANATAGGGGGGCCGG
GGGCTAANAATTAACCGGGGGGTTTAATTTCTCCAACCAAAGGGAAAAATCCAAGGGG
GGGGGNAATTTAAAAACCGGCCAAAGGGGNAAAAAAGGAAANCCAATTGGGTNGNA
AAGGCCAANAANAAGGNGGGCCCCCAAGGCCNANNATAANAANGNGGGCNCATGNN
GTAAANANCCCCGGGTTANNAAAAAAANAAGNNGNCCCCCGCNGGTTTNTGGNCN

Table 1

TTTGGGGTCCCGGTTTNTTTTTTTTCCCCAAATTAAGANGGGCCNTTCTCCCGGTC
TCNCCGCTCCTCCTTNGGNAACCGGNAAGGNCCCANTTTNCNAATCAAAAAAAAAAAN
AAATTGCGGGAAACCCGGGCCTTTCAANAAAGGNTTCNAANNNGTGAAAGGGGGNTTGG
GGGGGCCCGGNAANAAANAACCCCCCCCCGGTAACCCAAGGGGGGGAAACCTTTAAATT
TNATAANAAAGGGGAAATTAACCCCAAANGGGGGGCCCGGTTTTTTTTTNCNCCCCC
NCTTTGGGGGGGNAAAAAGNCCCTTTCNCCCCCTTTCGGGTTTGGGGCCCGGCCCTT
CTTTCNCCCTTTGGTTNTTCCCGGGAACCCCCCNTTTGNCNCCGGNCTTTTTACCNC
CCGGGGGAATTNACCCCTTGTTTCCCGGGGNCTTTTTNCNTTCCCCCTTTTC
GGGGGGG

Sequence 2422

GGCGCAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCAGAGTGCACAATGTAAGAAG
TCACTCACTCTTGGGCATGCGTAGTTCAAGGTTGGCAGCGACAGTGAGTGCCTTCTTAC
ATTTTGACCCTGGATACCTTCTTGCCTACCCCTAGACTGGCCCAGATGTCTAGTCTAC
AGNTCACNCTTATCACTTGCAATTTCTATTTCAATGACTACACTTTTNACTTCCAAGGT
TCTATATTTAATCCCTATCTATTNTAAGAATTCTTTGTTCCTTCCCTCTTTTACTN
ATTGATGATTCAAGAATNC

Sequence 2423

CCGCGGTGGCGGCCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTAACTGCAACAACC
TAACAGGAAAAC TAATCAGAGATCATGAGGAGAGTGGTATATCAGTCAGGGACTAATCAG
GAACATAATCCACTTGAGAATTTAAATAGAGAGGGCTTAGGCTGGGGAGTTGGTGACAG
CATAATGGGAAATCTACAAAGCAACAGGAATAGGGAGACACCCAGAGCCCATNTAGGC
TGCGCAGAGTCATCATCTNTAGGCTGGAAGGCTCAAAAAGAGTGGTGTTAGTGAGCCAGG
AGATGCACAGTCTCCGAGGGGAAGCTGGAGCTAGGGTGTACCTGCCCG

Sequence 2424

ATTATTTTGATTTTATATCTGAGTATGTTTNTAGCCAGAAGAGGAGAAGAAAGAGGTTAA
AAAGCAAAAACAGAATTTATAGATGCACGATATTCTTCTGAACAAGAGAAAGAACTGGT
AGGAAAATTTATTTTAAAAAGTGTTGAAGGGAAAGAATCAAGACCACAGATCCAGATCCG
GAGATTATTTTGCTAAAGAATAGCAATTGTGAGGCATGAGGTGGGAGGGGGGAAGAAGCT
ATGAACCTAATTTTGGGTTTCTGAATAGGAAACTTGAGTGAATTCACCTCAGATGCAT
TTGGAAATGTTNGCACTCCAGAAGATNANATTGTGTGCTCTGGAGAGATTGGAAGA

Sequence 2425

[illegible]

Sequence 2426

CCGCGGTGGCGGCCGAGGTACGCGGGGATGTGGGAGGATTGCATTAGTCTAGTTCCTG
GTTGCCGGCTGAAATAACCTGAATTCAAGCCAGGAAGAAGCAGCAATCTGTCTTCTGGAT
TAAACTGAAGATCAACCTACTTTCAACTTACTAAGAAAGGTATTAAGCGCCTTTCTGAG

Table 1

AGCTCTCAGTGGGCTTCCTAAGCACGTTCACTCTGCCTCCTTTAAGTCTTATATTTATGA
TCAAGATGAAAGGGAGGGATGTATCACTGCACAGAGATTCTACAAGTGGATATATAAAGC
TAATAATGTTTTAGTGAGCTCTTCTCTGGCAACTACTTTCCAAGTGCTTTTCAGCATTCC
ACCTTGAAGCACAAACGTTAATAATGCACAATTTCTTATGTTTCAGCCACAGAATGTTTCAG
TGTGATTTGGTTACAACATATTGCTCTATCCAGGCCTCTAACAAAAGTACCTCTTTCAA
ATGGACTTGCAGTTGCTGAATTCCAAATCAACACTTTATCTTAAAAACAGAAAANGAAGG
GAANGGTGGANGGAGGGGAACAAGAAANGGTCTGNCCG

Sequence 2427

CCGCGGTGGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTCTTAATAA
GTGAGGCCAAGTGCTGTGTGTAAGTGTGGGGTGGGCAAAATTAGGATTCCTGAATCACTT
CACTTTTTGTTGCCTTTCTCTTGGGAGAATGGTTACCATTGCAGAGAAGCATAGTTAAAA
TTGCTTTTGTGTTTCATAAACGAATTCATACTTAGATGTCATTGACCAACAACATAATAG
TATATCAGAGATGAAAGGCATCCTAGGGATGACCAAATCAAGCTCTTCATTACTCAAAGG
AGAAAAAATCCAGAAAGTGGATGACATATGTTGAACTAGTGATGGAAGTAGAACAGGGT
AGTGATTTTCTGCCTCTTAATTCTTCATTTTTTACACTAAACCANATATTAGGTATATG
ACTAGGAAGATCGTGAGGTAAGGAGCAAAGGGTTTGGC

Sequence 2428

CGCGGTGGCGGCCCGAGGTACGCGGGGGAGTCTGATCTGTCCCGGCCAGTGTCTCCAGG
ACCTTGGCCCCCTCATGCCTNCGTGCTTGGCGGTGTGCCATTTCTCTCTCCAGAGGACCT
TTCTGCCTAGGACTCATCATTTGTCCCTCCCTGGCATTTTTTACACCTGGAGCAGCCAG
AGGACGCATGCATGGCTCTTCNGAAGCCTTCTCCTGCCACGGCATGCACCCACACATGCG
AGCCTCCCGGGTACCTGCCCC

Sequence 2429

CGCGGTGGCGGCCCGCGGGCAGGTACGCGGGGGAACTTGTGTGCTTAGACCTGACGCTGG
GAGGAGATGCTGCCACCTAGGTTACTTGTAGGACCCTATACGGCAACCTCCTTTGCCAGG
AACTATTTATAAACATCCTGCAGGAAAATGAGTCTATATGTCAGAATACACATTTCCAC
CTTGCCCAACAGTAGAAAAACATAAGAAGAGAAAAACATTAAAAAATGACAAGGAAGTTA
ATGGAAGCAATGTGATGGTGTGTTGGAGGTGGAGCCTTCAGAAGGTAATTAATGCCCTTGT
AAGAAGAGGCCAGAGAGCTTGCACACCTTCTTCTGCCATGTGAGGAGCCAAGAAGCCGG
CTGCTGCAACCTGCAAGAGGACCCTCACTAGAAGCTAGCCATACTGGCATCCTCATCTT
GGCTTT

Sequence 2430

GACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACCACAC
ACACACAGGCACACGCAGGCACACACGCAGACACACACACATAAACACACAGAGTTCA
CTAGTCCGAGTTACTGATTTTCTTAGGATTCTCAAAGTGACAACACCGGAAACAAGGTAA
TTCATGTTAAACACAAGGGTTATATCAGTAAGAGATGGGATCCCCGAAGTAAACCGTGG
AATTTGAATCAAGTTTCGAAGAGCTAAAAAAGAAATTGGAGTTTCAACATTCACCTTCT
TGAATCCTTAAGAAATACAGAAGTTCAAAATAGAAAACATTACAGTTTCAGGATACAAAA
GTAGAAACATCTGAGATTAAGCCTACATTTTTAAAAAAGATATTGAAAATTAAGTGTCT
TGTAATACCAGCTTTTCAAACATCAATACCAGTATTGGCATTACCTAGATCAAATCTTTT
CATCAAAGTTGAAAAAATAAAGCATTGGGGATAGAAGGACCATCAAATGTCCAATATT
GAAATATTGGTCTTTGCATAGTTCCATTAAAAAATTTACCTGCTCTCAATGGTTGGTCAT
TCTTCAATTTCAANGGCTTTATTTGGAACAGACTTTTGCATTTTCAATGGCAGGCTTAAT
GGGGGTGGG

Sequence 2431

GACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACTTTTTTTTTTT
TTTTTTTTTTGATGTGTAGCCTTGGGTAAACACACATCCTTCTGTGAAACAGTCTCACAG
AGACTCTCAGAATCCCAAGAATTTTCTTCAACGTTCTTTGTTTTGATTCTGAAGGGAAC
ATCTGATCTATAAAAGGTTAATCACAGATACATTCATGAGAACATTTCTCCACTATACAT

Table 1

TTTAAAAACATATACAAATCTACTTTCATTACGAATCTGTGGTTCCTCCTCTGTAGCCC
GTATATTCTTTTGTGGATTACAATGACTACTTCCTATAGTCAATCCGTTAGAATTGAAA
TCTGAAAAGTCTGAAAATTAACATTATTTTATTAGAATGCACAAAAATATAAATTTGACT
AACTTCTATGAATTATTTCTTCACAAAGCAGTCACATACTCTTCTACTCTGAAACAAGGT
ATATCCTATATTTCTGTNCATTCANAAAACCTTAATTACCTACCATCTCTCATTTCTTT
GGAAATTTTT

Sequence 2432

AGGTAATTTTTTTTTTTTTTTTTTTTTTTTTTNNCGNAAANACCACAAACCACCTNTGAAG
CCAAGAAAAAGACGNGATTAGAGGGAAACACATCAGNACCTTTANTCCTCCACTGACTTT
GGAAAAACAACAAATGCCAGCTTCACCANATCATTNTTCTTAATTAAAAGTTAGCCA
GATTCTTTTGGAGCACTCAATTTTCTGGTCAGGTCAACAAAAAAGTAATAAACATCACAC
ACACCTCCCTCCCCTGTCTTCCTAGCCCCATTCTGGAGTTATGCAACCCTTGGGGGCGG
CATACACTTCAGCTATTNGCTCTGNGTTCATAATTAGATTGNCTAGACAGGANATGTTGC
TGGAGCAATAGG

Sequence 2433

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATTTCTTCTAATTGATC
ATATCTGCTTATTTTCTCTGGATTAAGGATCAAGGAGATAGTATATTAGATGATTTGAT
AAATTTCCAATGCTTTGCAAAGTAGTTGAACAACCTTTTCTTTGTGATGCTAGGTGGCAC
TACTAGTCAAGACTTGGTATTTTATAGCTGGCTTTCTTATTCTGAAGGTTGTAAGAACAC
ATATGAAGTAATATTTAACATTGAAACATGATAATCAATTTGATTATCTATGAATTGTC
CTAAACGTTTCAAGTAAAGTTTCTTTAAAGTTAAATCTTTCAAGTGAAGGAAATTATA
AAGTCACATGTAACACCAAAATAAGAGGAATAGAGCAATAGGATATTTTGGCTTTATA
ATTCAATTTAAAAATTAAGGTGCATTTATTTTGGCNGCTGGCCATAAAGCTTCAATG
TCCAGTAAGCAGTTGCTATCTATGATTGATGAAGATCATGGGGGGTCCC

Sequence 2434

CGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTGTATGCTATTACTGAATAACTCTTTC
TGAGATGGTTGTTGTATAGTAAACCATGAGTCTGGCATGTCTAAAATTGTCTTCATTTCT
TTCCATAAATTTGAATGTTTTGCTGTGTAAGTCATTCAAAGTTGAAGACAATGTCCCATC
TTTTGACAGAAAGGGAAGGAAGGATATGTGCTCAGCCTGCCAGTTTGACCCACTTTTGAA
AAGGGCTTTGTGGTCTCTACCAATGAGAAGTCTGGTGTCAATGTGATTTTCTTAACCTTA
TAGGAATTGTTTGTTCCTCTTTTCTGAAAACCTGTGCTTTCATCAGGCTCTACCAGCC
TTGATACTCTGTCACTCACTGGGCATGGNATTTGCACCATCCTTTTCAT

Sequence 2435

CGCGGTGGCGGCCGAGGTACTAGACGGGGCTGTAATCTGGTAAGTGTATGATTTTAGTT
CTTCAGTCCCTGGGAAGGAGACAGGAGAAGGTGGGAGGGAGGAAAGGGGCCAGCTGAAATG
GAAACAGATCCCTGATCCGGGGCGGCAGTGGAACCTTCTTGCTGTGCGAGAGCCTGTGC
ATTTCAAGAGGCAGCAAAAAAGTAAAAAATTTGATCTTTGTTTAGATTAAACAGA
CCCCTGACTATGAAGAAGGAAGGCATCCAGACCAGAAACCGA/AAAATGTCTAGCAAATCC
AAAAAGTGCAAAAAAGTGATGACTCACTGGAGGACTTCCCC/AGAACAGCTCGTTTAAC
CCGGCCG

Sequence 2436

GACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGAGGATCTG
AACTTTGGCGACCAAAAGTCTGATTTGCGTGAGGCACACAGTTACACTAGTTGTCT
AGGTTTAATAATTAATAATGCTTCTTTTTCATTCTCAAAGAGCCCTGATTTAGACAATA
AATTATATGGTCACCCTACCTATAGCCAGATATTTCTGCACCAAATGCCTCGATTTGGT
GGGTGGCTTTAATTAAGGAAGAATGCTTTAAGTTTTATGACATAACTCTGTTGTTCTGT
CAGGAAGTGATATGTATAAACTATTAATTCATCAGATTATATAAGGAGATAGGGTGC
ACTTAAATTTGCTAGGAAGTTGAGATCTCTAGTTGTTTAAGTTGGAAGTAATTGAAGTAA
CAGTTGGACAAGCTGTCATGATGGACATAGTAGAAGTGCCTTTTAATTAA

Table 1

Sequence 2437

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACACCATCCCCAAGGACA
CGGAAGTATTTCTCATCCTGAGCACTGCTCTCCGTGACCCACACTACTTTGAAAAACCAG
ACGCCCTCAATCCTGACCACTTTCTGGATGCCAATGGGGCACTGAAAAAGAATGAAGCTT
TTATCCCCCTTCTCCTTAGGTAAAGCTGGACCCACAGTTTCTTTCCAGACACCAGAGGGCA
GGTCCTATCCTCAACTTGAGAAAAAAATGACAGGTCCTTATTAATTGAGCACTTAATAT
ATTCCAATTGCTTACCTGCCTTATCCCCCTTCCATCTTCACTACAACCCGTGAAGGAGGC
TTGAGAAAGAAGATTACATTCCAAAGGCACATCTGGGCAAGCAGGAACCTGGGCAAGTA
TTTTAACATCTCTAAACCTCAGTGAATTCATTTTCTTAAAAAGAAAAAATCTGTTGAGC
ACCGNTGTAAGCCCAGTGCTGTACCTCGGCCGCTCTAGAACTAAGTGGATCCCC

Sequence 2438

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTCTGCTGATATTGAGCCATAG
AGCCAAGAAGATTGCTAATTTTGAAGTGCTTGGTCGGGCTTTCTACTGATGATGTTGC
TATTGATTCAAACAGTCACAAGTCTTTAGGATCATTTTTAGAGCAATGGCAAGAGTAGGG
CTGAAATGAAATCAGTCTGAGATAATGAACACTCCTGCTCAGAGATCATTATGGGCTGA
GCTGTGCTGGGAAGGCACTGAGCCTTGGGGGGCTAACACTTGCCCTCAGTGAGTTAGCAC
TCAGTAACCAAGCAATCACCTCGATCCAAGGCTTCAACTCTCGTGGAATATCTGTCAGT
TTGTCAGTTTCAGCAAATAACAAGTGTTTTGTTGNTTCTTTTTGNTTCCCCCGGAACA
TGGACTTTTAAACAGCTTAATTAATAAATATGGCACTTTTTCCTGTTGTTGAGTTTGA
GGCAAAGACCACTGGGTAGTTGGTGAGAAGCTTATNAAACAGCTTGCTTCTCCTGAGG
GGGGAAGGCTAACNTCCATGGGGGTATGGGAC

Sequence 2439

CCCGGGCAGGTACGCGGNGGAGGAGATGCTGCCACCTAGGTTACTTGTAGGACCCTATAC
GGCAACCTCCTTTGCCAGGAACATTTATAAACATCCTGCAGGAAAATGAGTCTATATGT
CAGAATACACATTTCCACCTTGCCCAACAGTAGAAAAACATAAGAAGAGAAAAACATTAA
AAAATGACAAGGAAGTTAATGGAAGTCAGCAATGTGATGGTGTGTTGGAGGTGGAGCCTTC
AGAAGGTAATTAATGCCCTTGTAAGAAGAGGCCAGAGAGCTTGCGCACCTTCTTCTGCTG
ATGTGAGGAGCCAAGAAGCCGGCTGTCTGCAACCTGCAAGAGGACCCTCACTAGAAGCTA
GCCATACTGGCATCCTCATCTTGGCTTTCCAACCTCCAGAACTGTGAGAAGTATATGTTT
GTGGGTAAAGTCAATGGTCTATGGTAATTTTTTATAGCAGTCCAGCCAAAGACAGTGC
CTNATTTACTACATACCATTTATATTATATATAGGCTCCTTTCAGAAACCCATGTTCAA
ATAAAGAGATAAGGATACTGAAACACATAACACCTTTCAGTATTTTAGTATACAAATA
TTGGAGAAATAGGTTGGTATTAATCTCATNCAAGAAATGCCANATTCATGGTGGTTC
TAATTTTTTATATATTAATTGACAAAATGAAAAAACTTAACCCATNCTAGATTTTAGCT
GCCCAAGGAATGAAAAGAAATNAAAAAAATTTTT

Sequence 2440

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACAGGAAGAAGTTCCTTGT
GCTATTTCTCACAATTTTCTTTAAGTTGAAACTATTTCAAATGAAGTTATATACTA
CATGAATTGTGAGTTAAATGCAAGCAAGATCTTCATGCCTGTAATCCCAGCACTTTGGG
AGGCTGAGGCAGGAGGACTGTTTGAGCCTAGGAGTTTGAGAACAGCCTGGGCAACATAGT
GAGACCCTCATCTCTACAAAAAATTTAAAAAATTAGCCAGGCATGGTGGCTCGTGACTAT
AGTCCCAGCTACTCAGGAAATGGAGGTAGGATGATCCCTTGAGCCCAAGAGGTGAAGGCT
GCAGCAAGCTGTGATCACATCACTATATTCCAGCCTGGATGATAGAGTGAAACCTGTCT
CAAAAACAAATAAAGCCTAAGGGAATATGCAGATTAATGGAAGAGAAGGCTATTTTGTGC
AGACAGGAAACAGATGAAAGACAATTTGACTTTTAAACTATGAGTAAGGCTCATGCCTA
TAATCCCAGCACTTTGGGAGGGCAAGGTGTGAGGACTGCTTGAGCCCAAGAGTTCGAGAC
CAGCCCTGGCAAAACAGTGAGACCCTATTTCTATNAAACATTTAAATATTAACCAGGTG
TGGTAATGTGCACCTGTGATCCCCAGCGACTCGGAACCCTGANGGGGGGAAGAATGCTTG
AGCCCTGGGANGGCCAAAGGCTTGCAATGGGNCCGAATNATGCCACTTGTANTCTTGGNCT

Table 1

NGGGGACAAAACCAAGACCCCTTGTNTTAAAAAGAAAAAAGAAAAAAGCC

Sequence 2441

ATAGGGCGAATNGGAGCTCCACCCGCGGTGGCGGCCGCCCGGGCAGGTACACATGTCCAA
GGTCAGGTCTGGGTGGTAAAGGTAAATACAAATTGGAAGGGCACTGTGTGAGCCAAAAT
GAGTCAGATTAGTCATGATTCATTTCCAGTTTGGGTTTTGGGTGGTCTTGAGAATGTTG
TAAGCACTGCTTCATTGATAGGTTGATTGAGCCAGACTTTACTCAGCAGCCTGGAAAAAGG
AGAGATGGGCTCTGGGTTCTACCTTTGCTCACTGGTAAGTTGCTAAGATTTACGCCCTTGC
CCTCAAACCCCTGAAGTAGTCCTTCATTCACACAGTGGGATCACTCGAAAATGTCAGATGG
GGAAGTCCATAGGTTGTTACTTTAAAGAAAAATAGAAAAAATGCTGGAAAAGGTTTCTTCA
ATTTAATACCCATGAAGGCCCATGTTTTAGCTTTCTCCGATGGGCAAACCATACACTA
ACTTGGGCCTTGTAATCAACAAGCAAGGCTAAAAGCTCTCTAAGTGCTTGCTGTTTAAAC
TATTTTGTGTTGGAAGAAGAGTTGGAAGAGGCAAGTGTGGAGGTGAGGGGAGAAAGTNC
CTNCCTCNAT

Sequence 2442

CCGCGGTGGCGGCCCGAGGTACGCGGGAAGGAGATGCTGCCACCTAGGTTACTTGTAGGA
CCCTATACGGCAACCTCCTTTGCCAGGAACATTTATAAACATCCTGCAGGAAAATGCAG
TGAAGTAGAAGAGACAGGGATATCCAGAAGGTTATGCAAAACATCAAGAGAAGATGAGA
GGAGTCTATATGTCAGAATACACATTTCCACCTTGCCCAACAGTAGAAAAACATAAGAA
GAGAAAAACATTAATAAATGACAAGGAAGTTAATGGAAGTCAGCAATGTGATGGTGTGTTG
GAGGTGGAGCCTTCAGAAGGTAATTAATGCCCTTGTAAGAAGAGGCCAGAGAGCTTGTGC
ACCTTCTTCTGCCATGTGAGGAGCCAAGAAGCCGGCTGTCTGCAACCTGCAAGAGGACC
CTCACTAGAAGCTAGCCATACTGGCATCCTCATCTTGGCTTTCCAACCTCCAGAAGCTGTG
AGAAGTATATGTTTGTGGTTTAGTCAATGGGTCTATGGTAATTTTTTTATAGCAGTCCCA
GCCAAAGACAGTGCCTCATTTACTACATACCATTTATATTATTATAT

Sequence 2443

CCGCGGTGGCGGCCCGAGGTACTTGCAAGAAACCTCAGGACTTGAGTAACAGCAACATGG
TTCTTCTGAGCTATGAAGGGGCCAGATTTAAGGGCTATTTTTGACACCCTAAATGTGCT
GAGACAAGTCATTAAGGTGGTCTCTGCCAGGACACAGCCATCTAAAGCAGCAATCTGCTTC
TTGCCAGAAAATCTCGTGCCTCTGCAGAGCCTTTTCCAGAATGAACCACACCATGCTGAG
GAAAGGAGAAAAGAGACCACCTACTGCATTTCTGTCACTCGCTGAAAAGGACACTCTGTCA
GAAATCTTCTAGCAAACCTCAAAGGGCAAAATCACCCCTTGTTACTGATAAGGCCCAGA
GAGCTTCAGCAGCTAACATTCCCTGGACAGGGCACAGCAAGGATTTGAACCTAGGTCAAG
TCTGGCCAGAACACCCACAAGCTTTCTTAACTCAGTGTGCTATCTCCCCACGACTAGGT
CACTACTGCTTTATAATCACCTTTGTAGCCACCAGTGGATT

Sequence 2444

GGTACATATTCTTACTTCTTGTGTAGGAGGCCAAAAGGTATCTGCAGGGCTCTGGGCTTGC
TAACCAAACCGTTAATCGCTTAGAAACAGCANGANNNTNNACTAGTGAGATGTTTATCACA
TACCTGGACACGAGTTGACTTTCTGTGAGACATCATTCTGGAATGAAAGCCAAAATCTCT
CTGCTATTCAAGTTGAGGCTGAAAAACAATCACATCAGAATTAGTAAGGCCCATNACAAN
GAGAGAGAAATGAAAACAAGCCAGTATTCAATGGGGCTAGGGGGGAAAATTACCTGGGCTT
CAGGAATTCAGGAGAGTTGGGGTTTTGAGAAGGTAAAAAAGTGGGCCAAGTGCGGTGGCT
CAAGCTTGTAATCCCAGCACTTTGGAACGCCAAGGCAGGTGGATCACGAGCTCAAGAGAT
TGAGACCAGCCTGGCCAACATGGTGAAACCCTGTCTCTACTAAAAACAAAAAATTAGCC
CGGG

Sequence 2445

CTNCCCGCGGTGGCGGCCCGAGGTACGCGGGTTTCTCAACATGGCTGCGCCCTTGTGAG
TGGAGGTGGAGTTCGGGTGAGTCACAGAGCTGGGGCGCCGTGGGGATGGAT

Sequence 2446

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTAAACAAAACATAAAATAAA

Table 1

AAGTCAAAAATTGGAGATGAAATGTATGTTTTGAAACACATTATTTTGGATCTTAAAAGA
TTTCCATGATATTTTTGAAGGTGTAATATTAATGATGTCTCTTTTTCTGTCTCATT
CCAAAGAACCATAAAAAAGCAAATTAACAGTGATGAAACAAAACGCTTACAGGTTTGT
ATCTCAGTGCATCTCTGTAGGATCCAAACAAAGCAGCCTGTGCTCTAAGAAAGGCCCTAG
CTACTCCATCACCCGTAGCTGTAGACTGCTTCTCAAGTTTATTTTCAAGGCCCCCGCG
TACCTGCCCCG

Sequence 2447

AGGGCGGCCGCCGGGCAGGTACGCGGGAGAAACCGTCTGAACTATCCTACCCGCCATCA
TCCTAGTCCTCATCGCCCTCCCATCCCTACCGCATCCTTTACATAACAGACTNAGGTCAA
CTATCCCTCCCTTACCCATTCAAATCAAATTGGCACACCCAAATGGGTACCTGGAATCT
AATTTATTTCTAAAAATATTTTCCACCTGCCAAGCCTTTGGTAATGAAGTGGTTNTTT
CNTGGATTGCCAAAATTANTGGGTTGAAATAAGGTTGGGCCGGAACCTTCATTNTTAA
AACCTTGGGGGGCCTTAAAAATTAATTCCTCTTTTTGGAACCAAGNCCTTTTTTTTTTA
ANTACNTGGGNCNCCTNCCTTCTCNAAGNGTAATTNTNTNTNTTAAGNNTTCCTTAC
NTTTTTAANGNCCNTTNTCTTGNNTGGGNCNCCAAATTTGTTCTTTGGGGTAAGGGG
NAAANCCTTTGTAANGGNANTTGGGGGAATTTTT

Sequence 2448

GGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACGCGGGGGCGGCTTCTTAGCTTTAC
GATGGCAACAAGTATGGCGGCTGCTAGTGGTAGATTTGAAAGTGCGAAGAGTATCNAAGA
GCGGAAAGAACAGACCCGGAATGCCAGGGCCGAGGTGTTGCGCCAGGCTAAAGCCAATTT
TGAAAAANAAGAAAGGCGTAAAGAACTTAANCGACTTCGGGGTGAGGATACATGGATGC
TACCTGATGTGAATGANAGAATTGAACAGTTCTCACAGGAACACNTCTGTGAANAANA
GAAAGAAAAAATGACCNAGCTTTTCNAAAAAAGCNATGGAAANGGAAAA

Sequence 2449

CGAGGTACTTACCTACACAAGTTTTACTATCTTGAATGTTCTAGAATTCAGTTAATAA
GGTGAAAGTGATAAACATGGCTCCATTTAGTTGTTATCTCTAAATGATTAGAGAAGTGT
TTGCCAAATTATAATGTGCATATGAATCACCCGGAGATGTTGTTAAATTCAGGTTCTGA
TTCAAAGGCCTAGGGTGGGCTGTGAGATTCTGTGTTACTAACAAGTTGCTAACTGAGGC
TGATGTTGCTGGTTCAGATCACACTTTGTTTAGTAAGGATAAGGGCAGGTTTCCAATC
TTGGCTGCAATTAGAATCACTTGGGAAAATTAACATCTATATCTGGGTCCCATCCTA
CCCCCAGAGATTTGTCTTAATTAAGTGGAATGTGGCCGGGTATCAGGATTTTAAAGA
AGCTCTCCAGCTGATTTTGGCCGTTCAAGTACCCGTTTGAACATGACTGAGTAGAGAATG
GACCTGGAAGATGAAANNNNNNNNNNNNNNNNNNNNGTACCTGCCGGGCGGCCGCTCTA
NAACTA

Sequence 2450

AGGTACTCTCCAGTGACATGCTTCTTGACCACAATGGATGAACTGTGCCCAGCATGCC
ACTTTCCAATGCTCCACTGATCCCCATGTTTTGTTTCTGAAGGACAACCAGCCTTGAAT
AATGGCAAATACCTTCTTAAGTTCCTACAAAGTATGGTCCCTGGGAAGTTTATGTCTGTA
AGTCAAACCTTGGGAAGTAAGTGAATTTGATGCCTCTTCCAGCATCATCAGCATCATGC
TATTACAATCCCAAACCATGGGGTTTCTCACAGCTTTACACCAAAGGCATCACTATCC
CTCAAAGAGAGAAACCT

Sequence 2451

CCGCGGTGGCGGCCCGAGGTACTTTNTTTTTTTTTTTTTTTTTTTTNACTGCAACAACC
TAACAGGAAAACTAATCAGAGATCATGAGGAGAGTGGTATATCAGTCAGGGACTAATCAG
GAACATAATCCACTTGAGAATTTAAATAGAGAGGGCTTAGGCTGGGGAGTTGGTGACAG
CATAATGGGAAATCTACAAAGCAAACAGGAATAGGGAGACAACCCANAGCCCATCTAGGC
TGGCAGAGTCATCATNTNTAGGCTGGAAGGTCAAAAAAGGTGG

Sequence 2452

TCAGTTTGGTTTGTGTTTGGTTTGAAGTAGGTTTTTTTTTTAGTATGTGATGAGCTTA

Table 1

TTCTTAAGTGAATTAATAAACTTTTTAGTATCTGTTTTAATTCTAACAGTATGAGTGT
TGGTAGTTATATTCCAAATAAACAAAACTCTTAGAGTCCTCAGTAATTTTTAAGACTGT
AAAGGGGTCCTGAAAATGATTAAATGTTTGAGAATAACTGCCTCAGAACATTGTTCTTCA
ACCCTAATCAAACCCAGCACGGCATTATATAAAAAATGATTTTATAATGCCCATTGCT
AATCCTGAAATAAAAAATACATAGGTAATAAGAATGACTTANCCAATTTCAAAAAATACAA
TGGAGGGAATACTAGTGTGGAGACCTAACTATACAGGAGAAATAAAGGAAAGTCATT
TTTTATAACATTATGCATGCATGTATAAAGCACTCAGATCTGATGACATTGGGAGACAG
GTGGCATAGCCAGATCCTTACACCTGTTTGTGGACTACCATGAATACAGCAAGTGGCCA
AAGCAAACCCCCNCGCTATAACTGATAGGAATTTCAATTGGCTTNGGTGATGGTCATTTCT
ANAATGGTAAGAAATCTTGGTAAGGTTAAATGAACCAA

Sequence 2453

CCGCGGTGGCGGCCCGAGGTACGCCACAAGGCATTTAATGCCACAGTAACAGGGCTGTT
TGACAGTGGCAGAAGAGGACGGGACTAAAGTTACTTTGTGCTGAGAGGGGAAAGAAGCA
CAAAGTTTGGTCTGTTGCGTAATTGAATTTTAACTCTTATCCACAACAAACACTTTT
TCGTGTCCTGCTGTGTAAAGACATCAGATATATTACAGATTTTCAAACAGGCAGGTATC
AACATTTACATTGTAATTCATAGACGCTACTACTACAAAGGAGCTTTATTCTTCCAAC
TAATATGGTTGCTGCGGGAACACTGCAGGATGAACTGACTTTTTTGTGGTAATGTTTC
TCCTGGTTGGGAACAACGCAAATTAGCAAAGGCGTAATTTATAACCGCTGCTACCAAAGA
GTGAAGTATTTGTGGAAGTCTGACTGGAATCTAACTCGTACCTGCCCG

Sequence 2454

CCGCGGTGGCGGCCCGGCCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTNTGCTNNGGG
NCTTTTCCCCTAGGATTTCTCCAATGAACACAAAATGCTTTTGTAAGAAAGAAACATG
ATAAACACATTGAAAAAAGTAAAGTAGGTGAAATGTCAATGAAATCTGGTTTGT
AGAACCATCAAACTTGAAAAAGTTTAATAAGACCACCANNAAGAAGAAGAGGGCAAGT
TTCCAAACTGATTTACAGGGCCAGGAGGGCAGGCCACTGANATAGGTAACCATGGAAG
CACAATCAGTCCCATCTCATGGATATTCTACCTGGGGCTTTTACTTTGCGTGGCTCAAAA
GCATCTGAGTNTTANACCAACAGAAAGATAACTCCNGAAGAAAGATGTAATAGTGTCATA
TTTGTGTAATTGATTGATCTAAACTTGGTTGATGAAAAATCCCTGGGACAACAGCAAGA
ANAGTTGCGTTCCAACCCCCCGAAGTNCCTGCTGCTTTCTGAACTGCAAGTATCATATCTC
TTGCTTTTGATTTA

Sequence 2455

AGGTACTCTTTCTAGTTATTAAGAAAGGTTAACTGTAAACAGCCTCAGGCAGGTCC
TTCCGGAGCTATCCAGAAGAAGCCATTGTTATCATAGGAGATGGCAGCTCCATGGGTGTT
ATTGCCCCCTGAAGACCTTCCAGTGGGACAAGATGTGGAGGTGGAAGACAGTGACACTGAT
GATCCTCACCCCTGTGTAAGCTTAGGCTACTGTGTGATTTGTGCTTAGTTTTAACAAA
AAGGTTTAAAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGTACCTGCCCG

Sequence 2456

TANGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGACACCCTAGATCC
CAAGATCTCCAAGGATTTGGTGGCATACCACTCCAGCACACAGAAGCATGAGGTTTCATG
ACTCTCCTNTTCTGACAGCTCTGGCAGGAGCCCTTGTCTGTGCCTATGATCCAAAAGCC
CGCTTTTGCCCAAGATCGGGGAACCCCTTGCCATTGAAGCATCATCCAGCTTAAAAAGG
AAA

Sequence 2457

AGGTACGCGGGAAGAAGGGTCAGCTCAGGGTGTGCCATGGGAATGAAATTCATATTGCC
TAACCGATTTGATATGAATGTGTGTTCTCGATTTGTGAAGTCCTAAATGAAGAAGATAG
TAAAAATATTCAAGATCAGGTTAACTCTGACCTGGAGGTGGCATCTGTCCTATTTAAAGC
TGAATGCAATATCCATACATCTCCTTCTCCGGAATTCAAGTAAGGCATGTCTACACCCC
CTCTACAACAAAGCATTTCTACCCATAAAACAGTCAACCACTTTAACCAACAAACACAG
AGGAAATGAGGTCTCTACCACACCTCTGTTAGCAAATCTTTG

Table 1

Sequence 2458

AGGTACGCGGGGAGGCCATCTCGCTATAGGAAAGGAAAGTGGAAACAGCATTTCATCTCAA
CATTTTACGAAGACAAAATGAAGACTGGAGTAGAAGACTGATCAGTGAGCATCATCAGC
ATCATGCTATTACAATCCCAAACCATGGGGGTTTCTCACAGCTTTACACCAAAGGGCATC
ACTATCCCTCAAAGAGAGAAACCTGGACACATGTACCTGCCCG

Sequence 2459

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTGTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTAAAAAAAAAAAAAATNAAATTTNTGAAAANGNGGNAANTGGA
ANTGGTAANNNTNAAACCAAAANTNTGGAANTAAAAAANTTNAAAAAAATTTAAANNTG
NGAATTGAAAAAAAAA

Sequence 2460

TCGACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAGAG
CTCTTTGTGGCTTGGGTGGTCAGCAAGAAATTTTAAAGCAGAGATACTCTTGATTGGGTT
GGATAAATAAAGAGCAAGGAGGACATTGTAGGAGGGGAATTGCTCCCAGCAGAGCCTAG
AAGCAGAGAGATTTTCCAGGGTTCCAGGAGAAGAGATTGAATAAGTGCAGTGGGCCATG
TGGTGACACATCTTGAGTGTCCAGCTGGGAACTGGAAGTGCATATCATAACAGGGGTGG
AAAACCTCAAGAGGTTGATAGGGAATGGTTGAGGTTGCAATGAGGGGACCCGGTGGGGGAC
TTT

Sequence 2461

[illegible]

Sequence 2462

TCCGGCGAATTTTCTCNCNANNGCGGCGCGCTGTGGCGCANGGAGGACCCCTTACAGT
AACCACAGCGTNTTTNAATCCGAAAGGGAAAAGACCCCGCTACCTTnnnnnnnnnnnnnn
nn
nnnnnnnnnnGCCCGGTTCCCTANNTATTTGTTTCCCTTTAGTGAGGGGTTAAATTGCGCGC
TTGGCGTAATANAGTNCATAAGCATGNTTCTCTGTCGTGAAATTGTNATCCGCTTAAC
AATTTCACATAAACANNCANAGCGCTGGGAGCATAAAAAGNTGATAAAGCCTNNGGGGNGC
ACT.AATGAGTTGAGCTAAACTTCACAATTAAT

Sequence 2463

TCCACCGCGGATGGCTGGCCGCCCGGGCAGGTA CTCTTTCCTGGATTACCA TTATACA
AAAGAAAATTC TTACCCAGCTGGAAGAGGAGGAACAAAAC TTTTACTATCAGGGCACAGG
CAAAAAATNCATTTGTGCAAGAGAGACATATAAGCAAACATGCATTTACAGTGTAGAGGA
A NNGGGGACCNCAGTATTTTTTTCTCCTGGGAANNCTTACATTTTTAATTAAATNNCNC
CTGTGNAAAATTTGTAGNANTANTTAAANANGCCTTCCNNTTGATTTTCANATGCAATTCAA
TACCTC NNGCCAAATGTAGNAATATNAAAACAAACNTTT CANGGTATGTTGGGGAATNGTCNCN
ACGATTATGTANAAGTAAAAAAGTGGCTCCANGTAAAAAA

Sequence 2464

CGAATTGGACTCCACCGCGGTGGCGGCCGCCGGGCAGGTACCTTAAAAAAAAAACATCA
GTTNTGGGACATAACAAANTAAATACTATGGAGAAATGGTATCTGGACAGGAACAGAAAT
GTCCACAAGTGCNAGGGATTTTCTTTTACACTTGGCCACAGAGTCGTTAATTGANNCTA
CCACTCCTTNAATATTGGGGATTCTCTTAATTAAGGTT

Sequence 2465

Table 1

CCGCCCCGGGCAGGTACCTTTCTTTGGAATGGGTTTGGTTCGACCGTCATACTTNTTCAAG
GTGATATANACGCTGCCCCGACGTTNCGGCACCTTTCTGGAAAAGTNTGGTCAGCTCCGTCA
GGAACATGCTCNNTTCTNCAACAACACCATNCNCGGNNNGACCCNNNGNNTACTCNTGGG
CCGCTTTNTAGAAAACATACGNTGTGNATTNCCACCGGGGCCTGNCAAGGAAAATTACGT
ATNATTNTAAAGGCNTNTATTCNGNATTACCCCGATACGTAACNCTNCTGAAGNGNGNGG
GGGGCCACACGNGGTATCTCCCAANACATTANTTNTGGATTTCNNCCCTNTTTAAGTTTCG
GAAGGGGGNTTTTAAAANTTTNGNCNGNCNGACNTTTTNGNACCGTTNAAAATNTCAATT
GGGGGTTCNCAATNACGNCCCTTGNTATNTACNNCATCGGTGGGNTGGAAAAAANTATT
GNTTTTAATNACACNGGNTTTCNAACNAAAATTATTNCCCACTAACCAAAACNTATTT
AACCNTAAAGGCCTCNGGGGNGGGAAGGACNAATTAaaaaaaagTTTG

Sequence 2466

CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGGCCGAGGTACGCGGGATTGACCCA
AAACCTGGATGTCCTATCTGTGTGTTCCAGTAGTCCCCTATTTTAAATGTGTCATGATAT
CTATTACTTTGTGTGAAAATTACCTGTTTGTGTTTTTCAGGTTATATAATAGTATAACACT
GCCAAGGAGCGGATTATCTCATCTTCATCCTGTAATTCCAGTGTTTGTACGTTGGTTGTT
GAATAAATGAATAAAGAATGAGAAAACCAGAAGCTCTGATACATAATCATAATGATAATT
ATTTCAATGCACAACACTACGGGTGGTGCTGAAGTAGAATCTATATTTTCTGAAACTGGCTC
CTCTAGGATCTACTAATGATTTAAATCTAAAAGATGAAGTTAGTAAAGCATCAGNAAAA
AAAGGTAAAAACAAAATTGCTCC

Sequence 2467

CGCGGTGGCGGCCGAGGTACGCGGGGGCAAACGCCGGGAGTAGCCGAAGGGGACTGCCGG
GAACAGGAATTTCTTCACATGGCTCCTGGAGAAGTGACCATCA

Sequence 2468

CCGGGCAGGTACCCGGGCGTGTGAGGTGTNAGTCTGCCCCCTACTTGGGGGTGCCTCCCAG
TTAGGCTACTNGAGGGTCTGGGACCCACTTGAGGAGGCAGTTCTGTCCGTTCTCAGATCT
CCAGCTTGCGTGCTGGGTGCNTGGGGAGAAACCACTACTNTCCCCGCCGTTACCTNAGGC
CCGCTTCTTAAGAAACCTANTTGGNATTCNCCTCGGGTCTTGTCATGGTAATTTCCNAT
TATTCAAAAGGCTATATTNGTATAACNCCGTGCTGACNCTTNGNAGGGGNGGGGGGNC
ACTCCGGGNTACCCCCAAGNCTTTTTNTGGTTTCCCACTTTTAANTTGNAGNGGGGTTTA
AAATTAGTCGACCGCCCTTTGGNCNGTTANAANTCAATTGGNGTTCAATAAAGGCCTGGA
TTTTCCNTTGTGGTNGGAAAAAANNTNGTTNTATTNTCCGNCATTCAACCANANTTTTT
NTCAACCACCAAAACCNATTANCCGTAAGGCCTCCNGGNGNNAAGTCCAATTAaaaaaat
NNTTGGNTAAAAAAGGCCNCNTGGGGGG

Sequence 2469

GGCCGCCCCGGGCAGGTACGCGGGGANTTNTCTACTGGCGAAACCTGTATCCGGGCCCCAAC
CTGAAAACATCCCAGCCAAGAACTGGTATAGGAGCTCCAAGGACAAGAAACACGTCTGGC
TAGGAGAAACTATCAATGCTGGCAGCCAGGTTANGAATATAAATGTANNAAGGGGAGTAG
ACTTTCNCAAGGGGAAAAATGGCTTACNCCAAANCTTGCTTNCATAGNCGCNCCTGCTGG
GCCAACTTATGCCCTCNTCAGAAAACAATCAACNCTTACTCACATGCAAANGAANCNGGN
CATTNGGCAATTAACAATGNGGATTGGATGGTAGTACTTGGGCAAAACNCATGAAAAAA
AAGGGCCTNGNACAAATATNCTTAACCAAGGGGGNCCTTCNCTTAAATAGGAATTGNTAT
NGGAAAACCATTTGGNTTGGCNTTGAAGGGGGGCCAAAACCAAGGCNAAAGTGGGNNTT
CCACCTTTTTANCCAACCCCTNGGTGNTCCNTNTTGGGTAANGNNAATGGGGGCNNTNGG
NCTTCCCTNNAaaaaa

Sequence 2470

AGGTACTTTTTTTTTTTTTTTTTTTTTTTTCTAAAAGCAAGGNGATCTGTGATATTTT
CGTCCTTTTGATGATTCTCTACTTCTTATTCAAGACCTGTGATTAAGTTGNGTGTATAT
TGCTGTAAAATGAAACAAAAGTAGGTCCTAAACATTGTAAGAATATGGTATACTAAAA
GCTTTGAAACCAAAAGAAAATTTAAAAAACAACAACAACAACATGTAGAGTACCTCAT

Table 1

ACCTAACAGACACTATAGAAAAGCTGATATTTTTTCCGTTGAAGTTAGGACATTANATC
ATTTTTCACAAAAATAGATTCTTAAATAANACATGTTGTCTAACAGGTATTTACA

Sequence 2471

CCGGGCAGGTACAAACAGGTGCTATCATAATTACCTCTGGGCAACAGGC AAAAATCAAGA
TTGTCCTTAGTAAACCAGGATTCATACCAGGTCATCTGATGTTTAGTATAGCACTCACCC
GACTCTGCCCTTACATTGCTTATTTAAATGTCTGCCCTCCCTTCTAGGTTTTATAAAAGT
TCTTGGCTCACAGTAACTCTTAGTATAAGTTTCTGAAATAAACACTTTGTTATCACTTTT
GAATTGATGGCTTACATTTTGTGTTGGCATTTAACTCACATTTGTGCATTCTGTGTA
TGCATTTCAACTCATCTGCAAGCTTATATCCCTCAAAGTTTGCTGCTGGGC

Sequence 2472

AGGTACTTTTTTTTTTTTTTTTTTTTTTTTACATGTATCAATTTATTTACTTTTGGTT
TTGCTCATTTTTACTGAAAATATGATTATCTATGTGGTGTCAATTTTTTCATCTCAAAT
AACTTCATTTTTACATAGTGTAGTCCAGCTGGAAACGTTTATTTTCATGTTTATCTTTTAA
ATGATATTTTCACTGGATACAGAACTGTCTTCTGCCTCGCTCACGCTGGGAGCTGTAN
ACTGGAGCTGTTCTATTCCGCCATCTTGGCTCCTCCCACTAATGCTGTTCTCTAGAC
ATGTTTGAATAGGGGCATTGCTATAATGAATGGCTAGCAAGTAGGACAA

Sequence 2473

ATTGGAGCTCCCCGCGGTGGCGGCCGNCNGGGCAGGTACTCTACATACCTGTATCTNATT
TCATCCTAACAATAGCCACACAAGCTAGACATAATTATCCCATTTTCCAGGAGAACTGA
AGTTCAANAGCATTTAGTAACTTCTCAAATTTATACACCTNAATAAGTGGTAGAGCCAGA
ATTTG

Sequence 2474

TACTATAGGGCGAATTGGAGCTCNC CGCGGTGGCGGCCGAGGTACGCGGGAGGTGTGCTG
TGTGTGAGGCGCCTGCCATGGTGATGGCCGTGCACAGCCAGACCATTAGATCCCACCGT
GCCCCAGCGGGTGGTCTCGCTGTGGATCGGCTACTCTTTTGTGATGCACACCAGCGCTG
GTGCGAAGGCTCTGGCCAAGCCCTGGCGTCCCCCGGCTCTGCCCGGAGGAGTTAGAA
GTGCGCCATTCATCGAGTGTACGCGCCCGCTCTAGAACTAGT Gnnnnnnnnnnnnnnnnnnnn
nnnnnnnnCGATATCAAGCTTATTCGATACCCGTCCGACCCTCGAGGGGGGGGGCCCCCGT
ACCCAGC NTTTTGGNTCCCTTTAANTGAAGGG

Sequence 2475

CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGAGAGGAGATGCTGCCACCTAGGTTAC
TTGTAGGACCCATACGGCAACCTCCTTTGCCAGGAATTTATAAACATCCTGCAGGA
AAATGGTAGCTGAGACCAATGATGCTGACCTCCCTCAAAGCTGCATTTCTGAATTTCTG
AAGGCAAACTGTCTGCCTATATTGTACAGCAAAATAATTTCTGTATTAAACGTTTTTA
TTGCTCTAAAAAAAAAAAAAAAAAAAAAAAAAAGTACCT

Sequence 2476

ACTACTTAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGGGGTAGGATGGGAAGCCGTG
GGGCAAGGGAGGTTGCAGGAAGCCCATCCTTCCCTCCTGCGGCAGGTACCT

Sequence 2477

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCCTGCAGGT
AGGCATTTAAATTGGTGCAACCGCTTTGGATTGCTGCTTTGTAGTATCTGGTGCAACTGA
AGATGAACATGCCCTGTGACACAGCAACCGCACTTCTAGGTCAATACCCTAATTATATTC
TTACTGTGGTTTACAAGAAAGGTATGTAAGAGGTCATTGCCTGAGCACTGTTTAGAATAGG
GGCAAACTGGAAATCCTCTAAATGTCTGTCAATGAAGGAATAGATAAATTGTAATATGTT
CATATAAAATACTGCATAAATAAGTGAAATTTATAAATGTACCTCGGCCGCTCTAGAACT
AGN

Sequence 2478

ATACGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACT
GCTGGTTCCGGCTGCCATAAAAAGCACACAGACGACATGGCTTACACCACAGAACTCA

Table 1

TGTTCTCCCAATCCTGGAAGCTGAAAGTCCAAGATCAAAGTGTTGTCTGGGTTGGTTTCT
TCCAAGACCTCTACTGTTGGCTTACAGATGATTGTATTTCAGTTCACATGATGTTCTTCTA
TGAGTGCCTGTGTGATTTTCTGTTCTTATAAAGATATCAGTCAGATTAAATGATGGTTC
ACCCAAATGACTTCATTTACCTTAATTACTTCTCTAAAGGCTCTATCTCCAAATACGGT
CACATTGTGAGTTTCTCAAGGGTTAGGACTTCAACATGTATTATTGAGGGAGTGGAACA
CAATTCAACCCCAT

Sequence 2479

CCGCGGTGGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TT
TTTTTNNTTTTTTTTNNNTNNTNTTTTTTTTTTTTTCCCCANNANAANCCCNTNNTNNN
NNAAAAAAGAACGTGAGGACAGGGCTCCTGCTGCGCAGGCATAAAGCATCCAAGAGTCT
GCACATACATGCCACACACTAAAAAAAAAAAAAAAAANTNNAGCNCNANNNNNAANTCTGGGG
GGGGGGGAAAACTTAAAAAAAAAAAAAAAAANNTTTCNAAAAANANAAAAANGNNNNNTAAA
AAAAAA

Sequence 2480

CCGGGCAGGTACTT
NANTNNTTTNNTTAAATNATNAAGGAANAANNAAAAAAAAAAANTNAAAAAAAAAAAAAA
AAAAANNAAAAAAATTNAAAAAAAAAANTAAAAAAAAAATAAAAAAAAAAANNAAAAA
AAAAAAAAAAAAATAAATAAAAAAANNTAAAAAAAAAAAAAAAAAAAAANAANTGAAATNNA
TNAAAAAANNTAATANAAAAAAAAAACAAATTNAAAAAGNTGNGTTAAAAATNTTAA
AATATTTTNAAAATTAAAAAANCGAANNCCTTTTCCAAAAANAAGNATAAAAAAT
CCAAANTNTTNAANNANNAANNGGTTNTTTAA

Sequence 2481

CCGCGGTGGCGGCCGAGGTACATCCTGGATGGATGAGAATGGGCACCATATTTTTTATGA
ATATATATTTTCTTTTTTTGTCTTCTACAGCACCAAAGAAATCAAATAGGAAAAGGA
GAGTTGAGAATTGGGAATCAAGAATCAGCCCTGTTTCCATCTTAGCCACACCAACTTATA
TCTTTATGATTTTCAAAGCTTTGCCATGTGATTCTGCCCCACAAAGGCATCGGTATTT
CCTAAATGGTACCTGCCGGGGCGGCNCGCTCGAAATACCGAGCCCGGGGAGCATTAAAA
GTGTAAAGCCCTGGGGGGTGCCCTTAATGGAGGTNGAGCCTAACCTCACATTTAAATTT
GGCGTTGCGGCTCACNTGCCCGCTTTTCCAAGTTCGGGGAAACCT

Sequence 2482

AGGTACGCGGGACTGTTATTCTCTCCAAAGCTTACCCAGCAATAGGAACTCCCATACCAT
ITGATAAAATTTTGATAACAGGCAACAGCATTATGACCCAAGGACTGGAATCTTTACTT
GTCAGATACCAGGAATATACTATTTTTCATACCACGTGCATGTGAAAGGGACTCATGTTT
GGGTAGGCCTGTATAAGAATGGCACCCCTGTAATGTACACCTATGATGAATACACCAAAG
GCTACCTGGGATCAGGCCTTCAGGGGAGTGCCCATCATTTCGATCTCACAGGAAAAATGAC
CCAGGGTGTGGGCTCCAGCTTTCCAATGCCCGAGTCAAATGGGCCTATTACTTCCTCT
TGGAGNTATGGTCCCACTTCCTC

Sequence 2483

CCCNGGTGGCGGCCCGCCGGGCAGGTACCGTTCCTCCAGTGCCAGAGATGCTCTCCGG
ACCAAGCCACAGATGTGGAGGAGGCAGGTAGGGGGTCAAAGAGGGGTGGTNTCGGTTATT
CAGGACTTTTTTTTTTTCTTAAATATCCTGNGCTTNTTCAATCATTTGAAGGTAAACC
AGGTCCTGNGANTGGTAAACTGATTTTTGTTCT

Sequence 2484

AGGTACGCGGGTGGGCAGCCGGAGAACAACACTACAAGACCACGCCTCCCGTGCTGGACTCC
GACGGCTCCTTCTTCTCTATAGCAAGCTCACCGTGGACAAGAGCAGGTGGCAGCAGGGG
AACCGTCTTCTCATGCTCCGTGATGCATGAGGCTCTGCACAACCACTACACGCAGAAGAG
CCTCTCCCTGTCCCCGGGTAAATGAGTGCCGACGGCnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnCTGCAGGAAATTCGATATCAAGCCTTATTCGATACCCGTCGACCTCGAGGGGGG

Table 1

GGCCCCGGGTACCCCAAGCTTTTGTTCCTTNTAGTGGAGGGGTAAATTGGCGCCGCT
TGGGCCGTA

Sequence 2485

GAGAGGCGGTTTGCCGTATTGGGGCCGCTCTTCCCGCTTCCTCGGCTCACTTGACTCGCT
GCGCCTCGTTTCGNTTCGGCTGCCGGGCGAAGGCGGTAATTCAGCTCACTCAAAGGGCG
GGT

Sequence 2486

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGATAATTAACAATTTG
TGGAAATTGAAAAAGCATAACTGTGTTATTTGATTAGTAATATGTTCCCTTAAAAATTC
TTTTGAGGTGTATGTTATACACACAGTAAATTTTGTTCAGGAATGACTTGCTCATTCTG
TGTTTTTAAAAATAGGAAATGAGGCATAGTGAGTCATCATTACATCAATTAACCAAAAA
TATTCATCCCCCTCCGCTCACTGAAATTATCTACTTCAGCCACCTTTCTATTCTCCGTGT
TAGGGAGGGCCACGTTTATGGGACTTNTTTAATTTTCCATGTGCCCATTTTGTCCAC
TTACCCGGGCAGTTAGCCCAAAAGGCTAGGCCTGTTTCAGTTCACACAGGA

Sequence 2487

TATACGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGG
TGCGATTTCGCATATTCGCGGAGATCATCAAGCCAGCAGAGAAATCCCTCCATGAAAAATT
AAAACAAGATAAGCGCTTTAGCACCTTCCTCAGCCTACTTGAAGCTGCAGACTTGAAAGA
GCTCCTGACACAACCTGGAGACTGGACATTATTTGTCCAACCAATGATGCTTTTAAGGG
AATGACTAGTGAAGAAAAAGAAATTCGTATACGGGACAAAAAATGCTCTTCAAAAACATC
ATTCTTTATCACCTGACACCAGGGAGTTTTCATTGGGAAAAGGGATTTTGAACCTGG
GTGGTTTACCTAACATTTTAAAGGACCCACACAAGGGAAGCCAAAAATTCCTTTCTTG
AAAGGAAGGTAAAA

Sequence 2488

CCGCGGTGGCGGCCGAGGTACGAAAGAGAGACAAAAGGGTTCTCTTGAAACAAGAAGAG
TGAATCCAGATGTGGCCTGAATAATTGCCATGTTAAGTTAATGCAAAAGATCAGAACAGG
GCTACATTTGCACAGGCAGTTTCTCTCCGGGCCGAGTTTCACTGATGATCACCTTTCA
CAGCATTTTCCCCAACCCAGCATTTCACTTAGTCTTCTATACCCAGCACCTCCCCGGC
ACCCCGGGCAAGCCCACTTATCACTTCCCGACTTTCCAACGTGGCATTCCCGTGGAGGAT
CCTGTTCCACATTAGGGCGAAAGCAGGGGAAACACCTGGNGNAGCCAGCCAGGGATGGG
GTTTTGGGAAAGGAGCCATGCCCTCTGGG

Sequence 2489

CCGGGCAGGTACGCGGGAGCAGAAATGATTGCACTATTGATAAATTCGAAGGAAAAATT
GTCCATCTTGTCGTCTTCGGAAATGTTATGAAGCAGGGATGACTCTGGGAGCCCCGGAAGC
TGAAGAACTTGTAATCTGAACTACAGGAGGAAGGAGAGGCTTCCAGCACCACCAGCC
CCACTGAGGAGACAACCCAGAAGCTGACAGTGTACACATTGAAGGCTATGAATGTCAGC
CCATCTTTCTGAAATGTCTGGGAAAGCCATTTGAAGCCAAGGTGTAAGATGTGNTGCC
TGGACACCGACAANCAACCCAGGCCCCGACTTCCTTTGCCAGGCTTTGGCTTCTCTAGC
CCTCACTGGAAGTGGGGGAGNAGAAGA

Sequence 2490

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGTTTCTGGTAACTTCAAAGC
TCCCTAAGTCACTAACCTTTCTTCGCCCTCCTCCACTAAGGGGCTSTCAGGAAGCATCA
ATTTCAAAAAATCTTTTAGACAGAACATATTGAGTCTNTGCAACAGCATCTCCACCA
CTGTCTGATGCTGANTTGCTGTGGACATGACGCCCACTCACTATACATCCCGGGACATT
CAGTCACTTNAAGGCTCCTCGGGNCGGNGGGGCTGCCCTCNCGATTTCTTCCAGC

Sequence 2491

GCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTAATAGCTCAAACCTCAGAGTCA
TCGTGCTCCCAATTCCAAAGAGATTCTAAAAGAGGCAACTT

Sequence 2492

Table 1

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAGTGGATACCCCA
GAATGACCTTCTAGGTCATCCAAAAACCAGAGCTTTTATAACTCATGGTGGAGCCAATGG
CATCTATGAGGCAATCTACCATGGGATCCCTATGGTGGGCATTCCATTGTTTTTATGATCA
ACCTGATAACATTGCTCACATGAAGGCCAAGGGAGCAGCTGTTAGATTGGACTTCAACAC
AATGTCGAGTACCTGCCCGGGCGGCGCTCTAGAAGTGTGGGGATCCCCGGGCGCTGC
AGGAAATTCCGATATCAAGGCTTATCGATACCCGTCGACCCTNCGAGGGGGGGGCCCCG
GGTACCCAGCTTTTTGTTCCCTTTAAGTGGAGGGGTTAAATTGCCGCCGCTTGGC
CGTTAAANCATGGGTCAAT

Sequence 2493

CCGCGGTGGCGGCCGAGGTACGCGGGGAGTCTTCACTGCTCTGCGTCCTGTGCTGATAAA
GGCTCGCCGCTGTGACCCTGTTACCTGCAAGAACTTGGAGGTTACAGCTAAGACGCCAG
GACCCCTGGAAGCCTAGAAATGGGACCACTGACATTTAGGGATGTGAAAATAGAATTCT
CTCTAGAGGAATGGCAATGCTTGGACACTGCGCAGCGGAATTTATATAGAGATGTGATGT
TAGAGAACTACAGAAACCTGGTCTTCCTTGGTATTGCTGTCTCTAAGCCCAGGACCTGGA
TCACCCTGGCCTGGGAGGCAAGGGAAAGGGAGCCCCTGGGAATCCTGGAAGNAGACATGG
AGATGGGTTNGACAAAACCCCCAGT

Sequence 2494

CCGCGGTGGCGGCCGAGGTACCCCCAGTGATGGGACATGGTCGCGCTGGCGGTGGGGCA
GGGCAGGAATCGGCACCGATCTGGCGGGCGGCGCTTGGGCGCCTGCACTGTGTGTCCCCG
CGTACGCGGGGAATTCAGAAATCACTACAAGCAGCATTAAAGTGAAGTTGGAATATTCT
GTTGACCATAAAACCTTGATATCATTCTGTGTATATAGAATGTAAAAGGAATATTACAGT
GTAACTGCCATATATGTAATATACACAACTCAATTAGCATTGTAAATGGCCCCAAATG
GCATTCCCCCATGCTTTTCTGGTTTTTCAAAAAAATTGGAAAAAACCAAAATCAAAAC
TCTTTATCCCCAACAGGCTGCCCTAATTTTAAAGGGAGTTCTG

Sequence 2495

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGACCACTCTT
GAGAGGTGGCCAGCCAGACTGCCTGTCCACATGCGTGTACGACATACAGCCGCTTCCTG
GAAGCCGCCTGGAATGTCTTACGGCAGCGTTTTGCTCACACAGCANGCTTTGCACGCC
CCAGGCAGCCCCGACTGCTGAAATCCAACCTTGAGCTGGCTGGTGGTCCCTGGATCCTAGA
GCCCTTCACTTCGGGTACTCCCTCTTTCTTGCCTCTATTTCTTAGTTGGAAGAAATAA
ACTCACAAATTATTGGTGCAGTAATTTTTCCCGGGGGAAAAGGTAAAAGGCCCTCAGGGA
ATGCCCCACCGCCCTTTTCTTTCCAAAGGCCCTTGTCTCTGGAGACCCTCTTAAGGTTG

Sequence 2496

CTACTTAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTT
TTTTTTTTTATTTTTTTTTTTTTTTTTTTTTTTTTTTTGGCAACACTTTATTGGGA
AANATTTACNCCNGGNGACCTGTCTNTAGGCCAAGCGATNAAAAAGGGCCCCAGGANCNC
TGGGGTCCCGAGGNGGCTCAAAATGGAANCCATGGGA

Sequence 2497

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGTTTGAAGCCAGCGCTCACCC
ACCCGGGGTCTCTGTGCATTGACCTTTGGGTGCTGACTTGGAGAAAAGCACAAACACGAC
CAGTCCCATCCTGGCTCCCGTGGGGCTTCTCTATCTACGCATTGTATCGACTGCATTAG
TTGGACTAAGATGATGACTCAGTTAAAGGAGGAGACAAATGCTGACTGTCTAAGCAAGAA
TGGCCCAAGCTGGCAAGAAAGACACACTTGACATACATCCCGCGTACCTCGGCCCGCTCT
AGAAGTGTGGGATCCCCGGGCGCTGCAGGNAATTCGATATCAAGNCTTATTCGGATTA
CCCGTCCGACCTCGNAGGGGGGGGGGGCCCGGTACCCCAAGCTTTTGTGCC

Sequence 2498

CCGGGCAGGTACTGAGTCAAGGACGTCTTTAACGTCATGGACGGCTCCTTTACCCACGCT
TTCTAGATCTTCGACTGCATCTTTTCTAGTTTTCCGAGTCCCCCACAGCTTTTTTTCG
TCCGCTAGGCCTTTTTCCAGAAGGCTGGATCTCTGCTTCTTGGCTTTGGTGCCTGTCT

Table 1

GGCTAACCCCTGGGTCTTCACCTGCATTTTCCTTTTGAGCTGCTGATGCTTCATGGCAAGG
GTTCCCCCGATCCTGGGGCAAGCCCCGCGTAACCCCTCGGCNCGCTCTAGNAACCTAGGTG
GGATTCCCCCGGGCCTGCAAGGGAATTCGGATATCAAAGCTTATCGGATACCCGTCCGA
CCTTCGGAGGGGGGGGGCCCCCGGT

Sequence 2499

TCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACGCGGG
ACTCAGAAGCTTGGACCGCATCCTAGCCGCCGACTCACACAAGGCAGGTGGGTGAGGAAA
TCCAGAGTTGCCATGGAGAAAATTCAGTGTGAGCATTCCTTGCTCCTTGTTGGCCCTCTCC
TACACTCTGGCCAGAGATACCACAGTCAAACCTGGAGCCAAAAAGGACACAAAGGACTCT
CGACCCAACTGCCCCAGACCCCTCTCCAGAGGTTGGGGTGACCAACTCATCTGGACTCAG
GACATATTGAAGGAAGCTCTATATAAAATGCCAAGACAAGGCAACANAACCCCTTGGATGA
ATTATTTATCCTTTTGAATGAAGTGCCCCACCAAGTCAAGCCTTTTAAAGGAAAAGG
TGGTTTGCT

Sequence 2500

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTT
TTTTTTTTTTTTATNGCAAGGACTGAGGCTGGAGCTCCACTTAAGTGGTTTGATCCAA
ACTGGAAAAGCAACTTCCAGCAAGGAACATCCANATAAACCCCTTTCGGAACAAAANAGN
GGGCCCCCTCCTGACCACAAAGATGGAACCCGCTCTCCTTGATACAATCCACGAATTTAC
ATCTTTAATCGGCTGTCCACTCAGGCCTAGGGCGTAGTCAGAAAATGACACCCCTCCACA
CATTGTGGTAAGGCAGNAATTAAGCCTCAAACCCACCGGTGACCCTATGTAGGTTCT
GGGGTTTGACCTGGGGGAGCCACCTTNTCAAACCTCCTTATACCTTCCCGACCGAAAAC
TCACTGGGAGCT

Sequence 2501

ACTGTNNCCCGACCCTGCCCCGCTTACCGGGATACCTGGTCNCGCCCTTTCTCCCTTCGGG
GAAGGCGTGCGGCCCTTCTTCATTAANCTACCGCTGTAGGGTATTCTCAGTTCTG

Sequence 2502

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCACCATGTGGGACTCCAG
GCACCATCTGTTCTCCCCAGGGACCTGCTGACTTGAATGCCAGCCCTTACTCCTCTGTGT
TGCTTTGGGCCACCTGGGGCTGCACCCCTGCCCCCTTCTCTGCCCATCCCTACCCCTAGC
CTTGCTCTCAGCCACCTTGATAGTCACTGGGCTCCCTGTGACTTCTGACCCTGACACCCC
TCCCTTGGATTCTGCCTGGGCTGGAGTCTAGGGCCTGGGGCTACATTTGGCTNTCTGTAC
CTGCCCCGGNCGGCCGCTCGACGGGTATCCACAGNAATCAGGGGGGATAACCGCCAGGG
AAAGGAACATGGTGAAGCCAAAAAGGGCCAGGCAAAAAGGGCCAAGGGAACCCGTAAANA
AG

Sequence 2503

CCGCGGTGGCGGCCGCCCGGGCAGGTACTATGATCCAAACACCAAAAGCTGTGCAAGATT
CTGGTATGGAGGTTGTGGTGGAAACGAAACAAATTTGGATCACAGAAAGAATGTGAAA
GGTTTGCGCTCCTGTGCTCGCCAAACCCGGAGTCATCAGTGTGATGGGAACCTAAGCGTG
GGTGGCCAACATCATATACCTCTTGAAGAAGAAGGAGTCAGCCATCGCCAACTTGTCTCT
GTAGNAAGCTCCGGGTGTAGATTCCCTTGCACTGTATCATTTTCATGCTTTGGATNTTAC
ACCTCGGAACTCGGGGAGGGGAACAATCCTGCCTGCATGGACCCTATTCAAGTTATGGGT
GGCTAATGTGNTCTGGTGGGACC

Sequence 2504

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTTTTTTTTTT
TTTTTTTTTTTTTCTGCCAACGAAATTATTTATTGCTGTGAGGAGGCCAGGACC
CTCCANACTGAANAGTCCATGGGCCCTGTGCAATGTGANAGCTACACAGGGAATCGCTGT
CACCTTCCAAGGATAAGCAGACAGGGCCACACATGCCATGGCCACTCGGNGCACAGGGGC
CAGGCTGNGCCCAGAGACCCAGGCATCCAGCTTGCAATCCAAGTTCCTTACTGAGAGCCC
CACTGCTTGATGGCAAGNCTCTAGGCATTGCTTGGGGATTGGGTGACTTTTGCCTCATT

Table 1

GAAANAAANAATGTTCTGGGGNGGTCTGTAAGGGGACAAATTGGATCATTCAAGGGAAGGG
GCC

Sequence 2505

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCAGAAGTGTCTCTG
GAATGGGGCCCATGAGATGGTTGTCTGAGAGAGAGCTTCTTGTCTACATTCGGCGGGTA
TGGTCTTGGCCTATGCCTTATGGG

Sequence 2506

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCTGACACTGCAGTGAAGGGCATG
CTAAGTCTAGGCACAGGTCTTGGCAGCAGGAAGGAGACAGAGCCTCTCCCAGGCACACAT

Sequence 2507

ACTACTTAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACACCACCAA
AGACCAATAATAAAAAAGAAGGTTCCAGGGAGGGCATGACCTCTGAAATTCCTCATGATC
TTTGGGTGTTAAATCCCATTTTCCCTTCTGAGTCATTGGTCATCCTTGGTCTCAGTAGA
TCAGGCACGTTAGAACTGTGGCAGAAGAGATAAGAATGAAGCAGCCAAAATTGAGCCTTT
GCTTCTTAGGTAATGCTGAAAAGTTTCACACTTTTACCTCTGCCTGAGTCCCCCGCCGAA
TCATTGCGTTACCTCGGCCCGCTCTAAGNAAGTAGTGGGATCCCCCGGGCCTGCAGGGA
ATTCCGATATTCAAAGCTTTATTTCGATACCCGTTTCGGACCTTCGTAGGGGGGGGGCCC
CCGGGTACCC

Sequence 2508

TNCTATAGGGCGCAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGGAAACAT
GCATAAGTGCCAATCCTTTGAATGTTCCACGGAAACACTGGTGGACAGATTCTAGTGCTG
AGAAGAAACACGTTTGGTTTGGAGAGTCCATGGATGGTGGTTTTAGTTTAGCTACGGCA
ATCCTGAACCTTCTGAAGATGCTCTTGATGTGCANCTGGCATTCTTCGACTTCTCTCCA
GCCGAGCTTCCCAGAACATCACATACCTGCAAAAATAGCCATTGCATACATGGGATCA
GGCCAGTGGAAATGNTAAGGAAGCCCTGNAAGCTGATGGGGTCAAATGGAAGGTG
AAATTCAAGGGCTGGAAGGGAAAAATAGNCAAAATTCACCCTAC

Sequence 2509

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTCTAAACTTCTCT
TCTCACTTCATTTCATTCACTTGATCTTCAATCACTGATACCCTTTCTCCAGTTGATCG
AATCGGCTACTGAGGCTTGTCATTGTCACATAGTTCTCGTGCCTTGGTTTTAGCTCC
ATCAGGTCCTTTAAGGACTTCTCTGCATTGGTTATTCTAGTTAGCCATTTCATCTAATTT
TTTTCAAGGTTTTAACTCTTTGCCATTGGTTCAAACTTCCTCCTTAGCCTCAAAGTA
GTTTGATNCGTCTGAGCCCTTTTTTTCTCAACTTACCCCAAAGGTCTATTCTCCAT
CAGCNTTTTGTCTGNATGCCTGGNNGAAGGGAAGCCTTGCCGTTTCCTT

Sequence 2510

[illegible]

Sequence 2511

CCGGGCAGGTACCAAGGCTTAGAGGTCAGACTGAGGAAACAAATGCTTCACAGAGTCCTC
AACCCATGACCATGAGTTCCTTAATAAGTAAGTGTGTGTGTGTGTATGTAAATATGT
GAGGCCCTCTAACGCCTCTTTCTACGGTAGAACAAGAGAACTTCAGTTTTTGCCATC
AATTTATTTAAATAAACATGTATAGCAGGTTTCAACAATTGTCTGTAGTTGTAGTAA

AAGACATAAGAAAGAGAAGGTGTGGTTTGCAGCAATCCGTAGTTGGTTTCTCACCATACC
CTGCAGTTCTGTGAGCCAAAGGTCTTGCAGAAAGTTAAAATAAATCACAAAGACTGCTTG
TCATTATATTAATTGCTAGGAAAG

GTGGGGCGGGCCCCGCCCGGGGGCCAGGGTTANCCAATTGGGGTGGGGCCCAAATTGGAAT
TTTGGAATGGGGTTAAAGGGGGGAAGGGGGAATCCNGTTTTGAACCCTCCGGTCTGGTT
TAATTGGTAAAAAAGGGAATTGCCCGNTAAGGGGGAATTGGGGGAAGGGGGCCGGAATT
GGAAGGGAACCTTAATGGAATTGAATTGGGCCGGGGGTTANGGGGAATTAGGTTTCCAAG
AAACCNCGTTTTTCTTAATTTTTCCCTTGGAAGGCCCGGTTCCTTGGAANGNAATTGT
TTAAGGTTNATTTTAAGGTTTTNAAGTTTTTTNGGTTTGGTGGAAAGGTTGGTTTTAAAN
GGGAAAAAAGGGGGGCCAATTAACCAAAGGGGGAACCTAANGGGGNAAAAAGGCCCAAG
NAATTAAGGGGGGAAAAAATAATTTGGAATTTTAAATTTGGAAGGGGGGGCCCCGGNTT
GGGAATCCAANTTGAAAAAAGGNGGTTTGNAATTAAAAAAGGGCCCTTCCTTTTTC
CTTAATTTGGAANTAAGGGGGGGGGGGGAAAAAGGNTTAAAGCCCGGTTTCTTTTTT
NGGTTTAAAGGAAAAACCCCTTTAACCCTTTTTGGGCCCGCCCTTTGNCCCAATTTGG
TTTTNGCCCGCCCAATTTTTTAAAAAGGGAATTTAATTTAATTTANGGGGGGNAAATT
TTTTTAAAGGGCCCCCTTTAANTTTAAAAANTTTTTTTAAAAAACCTTTTTTTTNGGAA
CCCAAAAAAAGNTTTTTAAATTTGGNAAAAAATTTGGGGGGGGTTTTTTTTTTTC
CCCAAAATTTAACCCCTTTTTT

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCCGGCCGCCCGGCGCAGGTACCTGTCCTAGC
AGTGGCAATCTTTTGGGGTCCCCATAAAATAAGAAAGGCTTATCTCCACACTGTAATGGT
AGTGATTGTGGATATTCATCTAGCATGGAAGGGAGTGAAACAGGTTCTCGGGAGGGTTCG
GATGTTGCCTGCACTGAAGGCATTTGTAATCATGATGAACACGGTGATGACTCTTGTT
CATCACTGTGAAGACAAAGAGGATGATGGTGATAGTTGTGTTGAATGTTGGGCAATTCT
GAAGAGAACGACACAAAAGGAAAAAATAAAAAAGAAGAAGAAAAACAAGATCAAGAA
TGATGTGAACATATCCAGAAGCTTGAAGCTGTATTACAGATCCAGGTAATCGAGAGACC
TCAGGAAATACCATG

CCGTAATACGACTCCATATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAG
GTACTGCGGCGGGTAGGCCTAGGATTGTGGGGCAATGAATGAAGCGAACAGATTTTCGT
TCATTTTGGTTCTCAGGGTTTGTTATAATTTTTATTTTATGGGCTTTGGTGAGGGAGG
TAGGTGGTAAAGTTTGTTTAATATTTTAGTTGGTGATGAGGAATAAGTGTAAGGAGT
ATGGGGGTAAATATGGTGGGCCCATCCGTAAGTATTAGTTGGGGCATTTCACTGTAA
AAGAGGNTGTTGGTCTCTTAATNTTAACTTTAAAAA

[illegible]

TCTGGGTTGGGGATTATTTCTGGGTTTCTACTTCCTGTTNGAAGAATGTTGGCATGGAAN
AGTGGTAAGTTTGAAGAAGATGAGTGCCGGGGGGCCTTCATCTAATCCCTNGGAAAATTGG
TCTTTTTCCCCACCAATTCCCCTTGACACCAAGAAATTANTGGAAGCCCANTACAAGGG
AANTTCTTGNAAGNAAAAATNGGGGGTNCCTCTTGCCCCACCCCTCCCCAAGTTAAAAA

Table 1

AGGAATTNATTTTTTTTTTTTAAAAAAGGGGTAAAAAATNCTTAAAAACC
TTTGGNGGCCTTTTNAATCCTTNGNATAATTGAAAAAANTAACCAGGNAACCAGG
CCCAATTAAAGGAAAAAATTTTTAAAAAATTTNAAACCTT

Sequence 2517

Sequence 25/7
CCGCGGTGGCGCGGCCGCGGCAGGTAAGTGTGAGGTCGCGAACTTCTTAGATT
TTGACCTCAGTCCATAAACCACTATCACCTCGGCCATCATATGTGTCTACTGTGGGGA
CAACTGGAGTGAAAATTTGCGTTGCTGGCAGGTCCCGTGGGAAAATCAGTGACCAGTTCA
TCAGATTCATCAGAATGGTGAGACTCATCAAGACTGGTGAGAAATCATCAGTGGTCATCT
ACCATCATCAGAAGTCCGTTCCGAAGTCAATTGGGAAGTCCTGGGCTGTCCACATGGGTC
CGTCATCATCTTCATCATCCCATATCATCCATTGTGGGTCATTGGCTTTTTCGTTGGGAC
CTTACTTGAAGGGGTCTCTTTGTTAAAGTCATTGGGTTTCTTTCAAGAGGACACCAG
CATTTCTGTGGGGG

Sequence 2518

sequence 2510
ACTACTTATAGGCGCAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTT
TTTTTTTTTTTTTTGGGCTTTTATCCTGTTTGTTGTTCTCTGAGCTTCTGAATCTGTG
GTTTCGTGTCACATATTAATTTAGAAAAATCTCATTCAATTATGCTTTGAATATTTCTTC
TATTCCTTTCTCTCTTTCTCTCCTTCTGGGGTCCACTATGCATACCTACATCTTTTAT
AGTTGTCCCACTGTTCTTGGATATTTCTGTTCTTTTTTATTCACTTTTTTCCCTTTGCT
TTCATTTTTGGAAGTTTCTCTTGAATATACTGAAGCTCCAGATCTTTCTCACCCACA
TCCAGTCTGCTAATGAGGCTTCAACACCATGCTTCATTTTTGGTAAGGTTTCTTGACTTC
TAGAATTTTTATT

Sequence 2519

Sequence 2075
CTACTTAGGCGCAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTT
TTTTTTTTTTTTTTTTTCTCGNATCTTATAGGCCAGGCGNGGNGGCTCACGCCTGTAA
TCCCAGCACTTTGGGAGGTCGAGACAGGCGGATCACGAGGTCAGGAAATCGAGACCATCC
TGACCAACATGGTGAAACCCCGTCTNTACTAAAAATACAAAAAAATTAGCCAGGCGTGGC
GGCANACACCTGTAGTCCCAGCTACGCAACTGNCACACCTCAGAGAAGTANATTTTTTAA
CAAAACCAATTTNTCTTGGTGTAAACAACACTGGAACACTAGTANCAGAGGAGTGAAAGT
GTGGGTAAANAGCCTTAAAAAATCTGNGGGAAG

Sequence 2520

ATTGGAGCTCCCCGCGGTGGCCGGCCGCCCGGACAGGTACAGAAGGGCCATGCTGTTATT
ACTCTTACACAAGGAGGCAGCCCTCGAGCCACAGGGTCCAGCTGTTGGCTATAATAGCCT
ACCGGTCTCTGATGATCACCATGTTTCTGGAATTC AAGCCAGGAAGAAGCAGCAATCTGT
CTTCTGGATTAAACTGAAGATCAACCTACTTTCAACTTACTAAGAAAGGGGATCATGGA
CATTGAAGCATATCTTGAAAGAATTGGCTATAAGAAGTCTAGGAACAAATTGGACTTGGA
AACATTAAGTACATTCTTCAACACCAGATCCGAGCTGTTCCCTTTGAGAACCTTAACAT
CCATTGTGGGGATGCCATGGACTTAGGCTTAGAGGCCATTTTGATCAAGTTGTGAGAAG
AAA

Sequence 2521

CCGGGCGAGTACTTTTTTTTTGTTTTTTTTGTTTGTTTTTTGTTTTTGAGATGGAA
TTTCGCTCTTGTGCCCAGGCTGGAGTGCANTGGCGTGATCTCAGCTCACCGTANCTCC
TGCTTNAGCCCTCCCAAGTAAGCTGGGATTACACGGTGCCATTGCACACTCATGCCTGGG
ACTAATNGTATANGTACNNTTGTATTAAATNTTTTTGNTATNTTN'TCCTAGAAGGACGN
GTAGTTTTCTCCATTGTATGAATCAGGGGCCTGGGTTCTCCGAAATTTCCCAACCCTT
NAAGGTTGGATTACNGCCCAACCCCTCAAGNCCTTCCCNCAAGTAGNTTGGCNTGGGGGT
ATNTAACTAGGGNCNTTGNAACCCAACNCGGTANNCCCNCAAACCTTNATTGCNTGGNTG
NTNTTTTTCTTT

Sequence 2522

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGTGAATTGGACATCTG

Table 1

TTGTTTGCAGATGTAATTAAGATGGGTGCTACTTAAGTAGTGTGGGCCTCTAATCCAATG
TGA CTGGAGTCCTACTAAGGGAGCAGGGTCAGAGGCAGACATGGGAGAATGCCATGTGAT
GACGGAGGCTGAGATTGAAGTGTGCAACTGCAATCCAAGGAATGCCAACATTTGGTGGC
CACCATGACAAGGTAGAAGGAGGCAAGGAAGGCTCCAACCAAGTGTCTCAGAGGAAGCATG
GCCCTGGTGACATGCTGAGTTACGCTTCCAGCCTCCAGAGCTATAAGAAGGTNAAATTG
TCTGTTTTCTNTNGGTTCCCTGTTACAGCAGCCTTAAAAAAT

Sequence 2523

AGGTACCGCATTCCTACTTCATTGCCCTGATGTAAGTGGACTCCCAACAATACCCGAGA
GTAGAAATCTTACAGAATATTTTGTGCGGTGGATGTGAACAACATGCTGCAGCTGTATG
CCAGTATGCTGCATGAAAGGCGCATCGTGATTATCTCGAGCAAATTAAGCACTTTAACTG
CCTGTATCCATGGATCAGCTGCTCTTCTATACCCAATGTATTGGCAACACATATACATCC
CAGTGCTTCCCTCCACACCTGCTGGACTACTGCTGTGCCCAATGCCATACCTGATTGGAA
TACACTCCAGCCTCATAGAGAGAGTGAAAAACAAATCATTGGAAGATGT

Sequence 2524

TAGGGCGAATCGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACGCGGGGAATGGGG
AAAGACAATCATTGAATACAAAACAAATAAGCCATCACGCCCTGCCCTTCTTGATATTGC
ACCTTTGGACATCGGTGGTGCTGACCAGGAATTCCTTGTGGACATTGGCCCAGTCTGTTT
CAAATAAATGAACTCAATCTAAATTAATAAGAAAGAAATTTGAAAAAATTTCTCTTTG
CCATTTCTTCTTCTTCTTTTAACTGAAAGCTGAATCCTTCCATTTCTTCTGCACATCT
ACTTGCTTAAATGTGGGCAAAAGAGAAAAAGAGGATTGATCAGAGCATTGTGCAATAC
AGTTTCATTAACCTCTTCCCTCGCTCCCCAAAAATTTGAATTTTTTTCAACACTCTTA
CACCTGTTATGGAAATGTCAACCTTTGTAAGAAAACCAAAATAAAAATTGAAAAATAAA
AACCATAAACATTTGCACCACTTGTGGCTTTTGAATATCTTCCACAGAGGGAAGTTTAAA
ACCCAACTTCCAAANGGTAAACTACCTCAAAACACTTTCCCATGAGTGTGATCCACAT
TGGTAGGTGCTGACCTAACAGAGATGAACTGAGGCCCTGGNTTGNNTGGTCATAATACAA
AAGGNGCTAANTAATAGGATTTCAANACTTGAANAATGGTGATNNGGCTANAANAATTGG
AGAANAATCCTCTGNATTGNGTGGATCGGNGGGGGATTTTTAA

Sequence 2525

CCGCGGTGGCGGCCCGCCCGGGCAGGTACCAACTAACCTCCCGCTCTTTATCTCCCCAAC
CTTCCCACTCCCCAGCCTCTAGTAACCATTATTCTCCTCTACCTGTGAGTTGATTTTGAC
CTCCACATAAGAGAATGTGGCAGTATTTGTTTTCTGTGCCTGGGTATTTTCATTTAAC
ATACTGTCTCTGGTTCATCCTTGTGTTGCAAACGACAGGATTTGTCTTTTTATG
ACTGAATAATATTCCATAGCCATATACATACCATGTTTTCTGTATCCATTTCGTTGA
TTGGCAGTAAGGTTGATTCCATATCTTGGCTGTTGTGAATATTACTGCAGTAAACATAGG
AATACAGATATCTTTCCATATACTGATTTCTTTGTTTGGATATATACCCAGCAGTGG
GCTTGCTGGATCATATGGCAGCTCTGATTTTAGGTTTTAAGGATGGGTTTTTTTTTG
AATGAGAATAAAAATTTCCATGTATAAGAACAGTGCTTTGAACTTTGTATATCCTT
TGCCCA

Sequence 2526

CCGCGGTGGCGGCCCGCCCGGGCAGGTACAATACTTTCTGACTGTCCACTAAATGTCAA
ACTATTTAGACTCCTACTCCTCCACTGTCTTAGTTGATTTGTGCTGCTGTTATAGAAT
ACCTGAACTGGGTAATTTATAGAAAAAGAGATTTATTTCTTATAGTTCTGGAGACTGG
TCAAGGGGATGGCATCTGGTGAGAACCTTCTTGCTACATCATCTCATGGAAGAAGGTGGA
AGGGCAAGAGGGCACATATGCCCAAGAAAAATGTGTGCACACACAAGAGAGGTGGAGAGAG
AAAGAGAGAGATAAATAGAGAGACGAAAAGGGGGCCAAGCTCATCTTTTATTAGGAATC
CATTCCCATGATCTCCCATGATAACAGCATTAAATCCATTATAAGTGCAGAGCCCTCATAA
CCTAATCACTTTTTAAAGTCCCACCTCTCAACACCATTGCATTGAGGATTAAGTTTCCA
ACACATAAACTTTGGGAAATGCATACAAACCATAGCACTACCTCCACTCACATCTTGGCT
CTTCAATGTCAAGGTATATTGGTTGGTAAGGGAATATAAACACATGAAGACATGTCTCTC

Table 1

CTTTCAATCCAAAGACTTACTGGAATTGNGTCAAGCTTCTTGTGGTCAGAAATGAGGNCT
TCTCTTTATTTTGGC

Sequence 2527

GCGTTANACGACTCACTNTNAGGGCGAATTGGAANCTCCACCGCGGTGGCGGCCGCCGG
GCAGGTACGCGGGCACTGTAATGCTNACTTANCATTAACTTTTAAGTTAAAGATTAAGA
GAACCAACACCTNTTACAGTAGAAATGCCCACTAAATACTACACGTATGGCCACCA
TTAATTACCCCATACTNCTTACACTANTCCTGATCACCCAA

Sequence 2528

CCGCGGTGGCGGCCGCCGGGCAGGTACCCTTTTCAGACTAATTGGAAGTTGAGTCATG
GCTGTCACTGAAATAATTTGTTCACTGCACTGAAAATCAATATAGATCAACAT
GCATAAGTTTCACTAATTAATGGGAGAAGCAAGCAAAAGCAACAGGAAAATTAAT
CAGGATGCTGAGGGGGGAACAGGGATTGCTGGCCATGAATTTTAATTGAATTTTTCAGCG
GGCAAGCTACGTTACATTATGGCAGCCCCGTACTTTTTTTTTTTTTTTTTTTTTTTC
GAGTTTTATGATTTATTTAACTNGTGGAACAAAAATAAACAGATTAACCACAACCATGC
CTTACTTTATCAAATGTATAAGAAGTAAATATGAATCTTATATGACAAAATGTTTCATTC
ATTATAACAAATTTCCAATAATCCTGTCAATTATTTCTAAATTTTCC

Sequence 2529

CGAGGTACGCGGGGGGGTGGTGTGGTCCAAAGGACAGGCTGGATGGCGGGTGCATCGGCG
TGGGCGTGGTCAGCATGTGTCTGCAATGCCTGTGGGCTCTACTACAAGCTTCACAATATT
AACAGACCCCTGACTATGAAGAAGGAAGGCATCCATACCATAAACCGAAAAATGTCTAGC
AAATCCAAAAAGTGCAAAAAAGTGATGACTCACTGGAGGACTTCCCCAAGAACAGCTC
GTTTAACC

Sequence 2530

CGAGGTACAAAAACACAAGGAATACAACCCAATAGAAAATAGTCCTGGGAATGTGGTCA
GAAGCAAAGGCCTGAGTGTCTTTCTCAACCGTGCAAAAGCCGTGTTCTTCCCGGGAAACC
AGGAAAAGGATCCGCTCCCAAAAACCAAGAATTTAAAGGAGTTTCTTAAATTTGACCTT
GTTTCTGAAGCTCACTTTTCAGTGCCATTGATGTGAGATGTGCTGGAGTGGCTATTAACC
TTTTTTCTTAAAGATTATTGTTAAATAGATATTGTGGTTTGGGGAAGTTGAATTTTTTA
TAGGTTAAATGTCAATTTAGAGATGGGGAGAGGGATTACTGCAGGCAGCTTCAGCCAT
GTTGTGAAACTGATAAAAGCAACTTAGCAAGGCTTCTTTTCATTATTTTTATGT

Sequence 2531

AGGTACTTTTTTTTTTTTTTTTTTTGTTTATGAAGACTTTTATTAAATTACAGTGTATT
ACAGATTATATCATAATAATAAGCCTTTCATCTTTAGGCTAATATGATACAAAACCTAC
TTGGCCACATTACTTCTTGAGTTTCTTTTGGGCAGCTTCTTNTTGGACATNTGTAAT
CCGCTTCATAGCATTGANCCCGTGATTCTTTGTGAAAGTTTGGGGCCCTTTAAGGGATGC
TGAGGGAGAGCTGCTGGATTCTGAAANNAATTTTGTNGGTAAGAACCCTGCCCGGGCCGG
CCGCTCTTAGAACTTAGTTGGGATCCCCCNGNGCTGCAGGGAATTCNATATCNAAGCTT
ATCGAAACCCGCCGACCNATCNAAGGGGGG

Sequence 2532

CCGCGGTGGCGGCCGCCGGGCAGGTACGCGGGGTACCTGCGGTGGGCGCACTAGAG
GTCCTTTGAACTCCTTCGGCTACCGTCGCCGCTTCTCGCTGTGCACTCTTATTCTGCGC
CTGCGCGCGGCTACAGCACGGTTCGTTTTTCTTTAGTCAGGAAGGACGTTGGTGTGAG
GTTGGCATACGTATCAAGGACAGTAACTACCATGGCTCCCGAAGTTTTGCCAAAACCTCG
GATGCGTGGCCTTCTGGCCAGGCGTCTGCGAAATCATATGGCTGTAGCATTCGTGCTATC
CCTGGGGGTTGCAGCTTTGTATAAGTTTCGTGTGGCTGATCAAAGAAAGAAGGCATACGC
AGATTTCTACAGAACTATGATGTATGAAAGATTTTGAGGAGATGAGGAAGGCTGGTAT
CTTTCANAGTGAAAGTAATCTTGGAATATAAAGAATTTCTTCAGGTTGAATTACCTAA

Sequence 2533

AGGTACAGCTGCTATCTTATTGGACTACAGTAAATATTTTTTAAAGGACACCAATGAGG

Table 1

GGCACCATCTGGTGTTAACCTTAACCAGAAAGCTGGTTTCCTCCTCCTCCCCCCCCGCGT
ACTTTGGCCTCTCTGGGATAGAAGTTATTAGCAGGCACACAACAGAGGCAGTTCCAGAT
TTCAACTGCTCATCAGATGGCGGGAAGATGAAAGACAGATGGTGCAGCCACAGTTCGTTT
TGATTTCCACCTTGGTCCCTTGGCCGAAACGTCTAGGCCAAATCGTTGGACCTGCCCGG
GCGGNCGCTTTTAGAACTAGTTGGGAATCCCCGGGCTTGCAAGGGAAATTCGAATAT
TCNAAGCCTTAATCCGATAACCCCGTTCTNGAACCTTNGAANGGGGGGGGGCCCCGGGT
ANCCCAANCTTTTTTGGTT

Sequence 2534

AGGNCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGCAGGTACTTTNTTTTTTTTTT
TTTTTTTTNTNNNGGGGNGGGTTGAGTCGGAGTCTCACTCTGTCGCCCAGGCTGGAGTG
CAGTGGCAGGATCTGGCTCACTGCAACCTCCGCCTCTGGGTTCAAGTGATTTCTGCCT
CAGCCTCCCAAGTAGCTGGGACTACAGGCAAGCGCCACCACGCCAGCTAATTTCTGTGT
TTTTAGTANAGACAGGGTTCACTATGTTGGCCAGGATGGTCTCGATCTCTTGGCCTCGT
GATCCACCCGCTCAGCCTCCCAAGTGCTGGGATTACAGGCATGAGCTACCACGCCCGG
CCTAATTTTTAACTCTTTATTCCGTGTCTTAAACATCCATTATCTAATTTTAACTG
NTTATTCTGNGTCTCTAAAGGATTCATTACCTAATTTTCAAATACCGTTCTCAA
GTCCTGGTTATAGACAAGGCAGTTATTGAAAGCACACTATGGCAGGATTTATGGAGTGT
ACCTT

Sequence 2535

CCGCGGTGGCGGCCGAGGTACGCGGGGAGTGAACTTTTACCAAAGACTGCTGTCTACTC
TGAGGGCTGCTACCTGTGAGGCTTCAACTGCATAAAAAGACAGCCTTTGTCACCAAGTCT
TTTTCCCATCTCTCACCATAACCTGTCACCATGCTCAAGCCTCAATTTCTTTCTATA
AAATATAAAAACTTTGTCATTTGGCTCTTCTTTAGTCTCATATTCATAGACCTCTCGTG
TCCATGTGCATATTGATAAATCTGTATCCCTTTTCTCCTGTTAATCTGTCTATTGTCAAT
TCATTTTCAGCAGACTCAGACTTCAACATTGCGGGGAAAATTTGAACCTCTCTACAGTTT
GGTATCTTTGGCAGGATTGTAAGCAAATCACTCTGCCCACACCCGAGGCTGCAGCCAGAA
ACCACGGAAACTGACAGACACCAGCNNNNNANAAANNNNNNNNNNAAAGTACCTGCCCG
GGCGGCCGCTCGACTTGAGCAGGCTACTGAACCATGAGCCAAATAAACCTTTT

Sequence 2536

CCGCGGTGGCGGCCGAGGTACCACTATAATCTCTAATACTTACTCAGAATTACTGTGTA
TTTACTTAATTTCTTATTATGTGCCTTATTATGTGCTTAAGATACAATAGGTTAGAGTTT
AATCTAAATATCTTGAAAGCTATATTGTGGGCTTGGTAAGCATTTTGTTTTTCTTTCTC
TGTTTTGGTAAGGATTTAAATTTTTTTCATTGCAATTTTAAGTGGTTTCAATAAGTAA
TAGTTTTATCAAATTTTTGGTGCTTGGTGCAGAGACGGTGTGGGAAGGGTGAATGGT
TTGGGAATAATTCAGTGCACACCTGTAGGCCTCTTTACATTGTGACTGATAGGGGTTATT
GCATATCAATTTGGGGCTGTAGAGTGCAATCTCAAGTTTCATCTTTTCACCCATCANAA
TTTGTCTCAGGATTACTTGGTTTTTCTCAGTCTCAAGCCGAGAACTTGCTT

Sequence 2537

GCGAAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAGGTCCGGAGAGACGCAC
AGCTTAGATGTCAGGACATCCTGGAAGCTGGGAAAGGTAAATCTTGCTACTGCTCACTCT
TTGGGTCCACGCTGCTTTTAAGAGCTGTAACACTCACCGTGAAGATCTGCAGCTTCGCTC
CTGAAGCCAGCGACACCACGAGCCCACCAGAAGGAAGAACTCCGAACACATCTGAACAT
CAGAAGGGACAGACTCCAGACGCGCCACCTTAAGAGCTGTAACACTCACTGCGAGGGTCC
GCGGCTTCATTCTTGAAGTCAGTGAGACCAAGAACCCACCAATTCCAGACACA

Sequence 2538

CCGGGCAGGTACTCAGGGATAATAAAAAATGCAAAACAAAGTTTTATGCACATAATACCCAT
CACAGGGTTACTTATAACAGCAAGAATTAGGAGACCAAAAAAAGGTAGACAATATAAGA
GGAATGGTTGGGAAGTCATAATTGGCCATACAATGGATTTTATGAAGCCATTAATAAGGA
AGATTTTAATGTAATAGAAAATACATGAGATAAATTAAGTAAAAAAGCGTGACACAAAA

Table 1

TTGCACGTAAAACCTCACCCATCTTAAAAGGATGCTTAATGATACTTTTCACTTTATGCT
TTCATAATATCTAAATGATCTACAATTAACCTACATTATTCTCTAATGAGTCAAAAAGG
CTTTTTTTTTTTTTTTTTTGGAGACAGAGTCTTGCTCTGTCATCCAGGCTGGAGTGCAG
TGGTGCGATCTCGGCTCACTGCAAGCTCAGCCTCCCGGGGTACGCCATTCTCCTACTTC
AACCTCCCAAGTAGCTGCTTTGAACCCGGGAGGCANAANGTTGCAGTGAGCTGAGANCAT
GCCACTGCAGTGCAGTGCANCCTGGGAGACAGATTGGGACCCCTCTTAAAAAAAAGA
AANANGA

Sequence 2539

CCGCGGTGGCGGCCGAGGTACGCGGGGGTAGATGGAAGGAAGAACTTGTGTGCTTAGACC
TGACGCTGGGAGGAGATGCTGCCACCTAGGTTACTTGTAGGACCCTATACGGCAACCTCC
TTTGCCAGGAAC-TATTTATAAACATCCTGCAGGAAAATGTCAGCAATGTGATGGTGTG
GAGGTGGAGCCTTCAGAAGGTAATTAATGCCCTTGTAAGAAGAGGCCAGAGAGCTTGCGC
ACCTTCTTCTGCCATGTGAGGAGCCAAGAAGCCGGCTGTCTGCAACCGGCAAGAGGACC
CTCACTAGAAGCTAGCCATACTGGCATCCTCATCTTGGCTTTCCAACCTCCAGAAGCTGT
AGAAGTATATGCTTGTGGTTAAGTCAATGGTCTATGGTAATTTTTTATAGCAGTCCCA
GCCAAGACAGTGCCTCATTTAC

Sequence 2540

CCCGCGGTGGCGGCCGCCGCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTT
GATGTTATTTTATTGGGTCGTAAATAAGGAGTAGGTAAAACATTTTGNCGTTTAATAAGT
GAGGCNCAGCTTAAAAGTTTTAAACAGCAATA

Sequence 2541

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCTGCTGAAAGATTATTT
CTAACAGGCTTGTAGAGAAACGTCGGTTCATGTNAATTANAAATTATGGGGCCACTTTGC
CATTCTTCACACCTGCAATGAACAGGTGTTTATCTGNNGNNCTGACTTATCTCTTGAAC
CCATTTGCATGGTATNGTGGGATGCAAGCTGATGCCCTGTCCAGATCT

Sequence 2542

TCGACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGTCACACTCATTTACCCG
GGGACAGGGAGAGGCTCTTCTGCGTGTAGTGGTTGTGCAGAGCCTCATGCATCACGGAGC
ATGAGAAGCCCCGCTACCT

Sequence 2543

ATACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAATTAATTTAACAC
ATCTTTTGATAATCTCATCCTTGGTGTGGAAAAGACGGGAAAATCCAAAAGTGTCTATT
TTGTGCCCAAATGCTCAAGTTAATACTCGAGGGCCTTGATCTCTGGCCTCTTGCCATCCC
TCTCCCCATTATTTCTGAAGAAAGTANCCCATTTTTTGCAGATTCCGGAGGGATGGGGAG
CCACGGC

Sequence 2544

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACNATATACAAAGACTNTGAG
CTGNNTGCCTCCGATGGTTTCCAGTATTGGCCCGTTGTAAAGCTCATTAGGCCAACTTT
NACTTTNANTATGTGATTCTGCAGAAATTAANTTAAGGAGGCGCTGATCCATGCTGAGAGT
ATCATNAGAAAANGGCATTAATCCACAAGGTGCCAANCAAAAGTTGTAATTTNNTTNCAT
CNTGGCTCTCANGAAGCAANATGCCAANGCNTTAATNTGGGGNACACCAAAGAATCCGTT
GAAAGGGNAGGTTTGCTTG

Sequence 2545

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGCACCTTGTTGG
GCATGTTTGATTTATTGCTTCATGGCCGACTGGAATCCTGAGTCTGGGAAGCTGGCAC
TGCGGGGATCTTGCCCGGTGTCCTGGTCTCTTGCTTCCGTC

Sequence 2546

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTT
TTTTTTTTGGGTTTGTATTGTTGTGGTCTAANAAGAAGGGAACATGGTTGGAGGCCCA

NTGAGAGAAACAGTGCTTTGAATCAAAGAGCAGAATGATAGAACTGACTTCANAGCAAC
TTCTTGGCAGCAGNATCCAATTTGGAAGTTGAAGGTCTTGTCTCGAGCCAGATGCTAAC
CNAAACACAGCAAATGCTTTTCTAAGGCACAATAGTCTTTTCANTGAGCTCAGGAÁCCC
TNTNTATGCCANATCCTCGTNTGAACCTTCTTGCTCCTTCTGTGCNTGAAGATGCCCACT
CCACAGANCCCCGNGTACCTGCCCCNGGCnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnCNNG
CTGCAAGGAANTCTATATTAACTTAATTCGATACC GTTCGACCTNNGANGNGGGGGGCC

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGGCGGGAGGCTGACGAGAGCCGGGA
GGCGTTAGCGAAGGAAGAGAAAAACCGAAGACGAAGCCACTACAGCCCCCGCGTACCT

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTCGGGATGAAGG
TAAACCAACGTTTATTTTTTTTCCAAAACAGAGTCAGTTTGTGCTGGCCATCCAGGAACT
CACTAACACTACCCCTCTTAGTTTCATCATTAATCTGTTACTGAAC TTCCACCTCCAAA
NACTTGNATCCTTTTCTTATTTTTGGAGACCGTNTTGCTNTGTCACCCAGGCTGGAGTGC
AGTGGTGTCNATCTTGGCTTACTACAGCCTNAACTNTCGGGCTCAAGNGATTCTCCTACC
TNAGTCTCANAGTAGTTGGGACTACAGGGGTGCACCAACACGCCCAGCTAATTCTGAA
TTCTCTGTANAGATGGGATCTTGCTATTGTTCCCAAGG

CCGCGGTGGCGGCCGAGGTACGCGGGGACTACTTCCACTAAGACTATAATTACTACTGAT
GGTTATGATGATGTCCCAAACACGCCATCCTAACACCGGCTTCTTACCAGTTTGAAAAC
TTTAAGGCATTGTTTGACTTCTCTTAATCCTAGATACATTCTGCTTAAAAGTCCTTCAT
TATTTTCTTTAAAAGCGTAACATTATTATTTATCCACAGTTACTACCTTGCTCTTAC
CAGTTAGCTTGTGACTGAATTACTGAAGCATTTTCTTAGCGGTTTCCTACTTTATACTTT
CTCTTTTTGTAATAACTCAGTATTCTTCTGCCAAATGAATCCCTCCCATCTCTCCCTA
TGATATCTAACTTAAGCTCTGACAATTTGAGTGTGGGAGTAGTTAGCAGTGATTCTGGTG
AGGTAAGCAGGGACCAAGATCATAAAGGACCTTAAGT

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCAGCGGCCGCCGGGCAGGTACGCGG
GGGCCACCTAGGTTACTTGTAGGACCCTATACGGCAACCTCCTTTGCCAGGAACATTTA
TAAACATCCTGCAGGAAAATGAGTCTATATGTCAGAATACACATTTCCCACCTTGCCCAA
CAGTAGAAAAACATAAGAAGAGAAAAACATTTAAAAAATGACAAGGGAAGTTAATGGAAG
TCAGCAATGTGATGGTGTGGAGGTGGAGCCTTCAGAAGGTAATTAATGCCCTTGTAAG
AAGAGGCCAGAGAGCTTGCGCACCTTCTTCCTGCCATGTGAGGAGCCAAGAAGCCGGCTG
TCTGCAACCTGCAAGAGGACCCTCACTAAGAAGCTAGCCATACTGGCATCCTCATCTTGGC
TTTCCAACCTCCAGAACGTGAGAAGCAATATGTTTGTGGTTAGTCAATGGTCTATGGTA
ATTTTTTATAGCA

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGCTTCTCATGCTC
CGTGATGCATGAGGCTCTGACAACCCTACACGCAGAAGAGCCTCTCCCTGTCCCCGGG
TAAATGAGT

CCGCGGTGGCGGCCGCCCGGGCAGGTACGATGTCTAGTGATGAGTTTGCTAATACAATGC
CAGTCAGGCCACCTACGGTGAAAAGAAAGATGAATCCTAGGGCTCANAGCACTGCAGCAG
ATCATTTACCCGCGTACAGTTTAGGGGATCCTTTCTAATGACAGGAAGGCACTGCTTC
CTCAACACTGTGATCTGACCTGTGACAAGTCTGTACCT

CCGCGGTGGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTGGGCAGCT
AAAACTAGGATGGTGTTAAGTTTCTTCATTTGTCAATTATATATAAAAAATTAGAAAC

Table 1

AACATGAATCTGCATTTCTTGGATGAGATAGTTAATAACAACTATTTCTCAATATTTGT
NTACTAAAAAACTAGTGAAGGTGTTATGTGTTTCAGTATCTTATCTCTTATTTGAACATG
GGTTTCTGAAAGGAGCCTATNTAATAATATAAATGGTATGTAGTAAATGAGGCACTGTCT
TGGCTGGGACTGCTATAAAAAAATTACCATAGACCATTGACTAAACCACAAACATATGCT
TNTCACAGTTCTGGGAAGTTGGAAAGCCAAGATNAGGATGCCAGTATGGCTAGCTTCTAG
TGAGGGTCCTC

Sequence 2554

CTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATGTAGA
AAATCCAGCAACGAAGAGCCATGGCTCACTGCTAATCACATAACACACACAGGAGTCTAT
TTATGCATGGAATGTGGCAGATTTTTTAACAAGAAGTCACAACCTGTTATACACCAGAGA
ACTCATACAGGAGAGAAACCCCTATCAATGGCAGTGAGTGTGGAAAAGCCTTTTACAGA
AGTCACTGCTCACGGTTCATCAAAGAACTCACTCAGGAGAAAAACCGCATGGGTGCAGCG
AATGTCAGAAAAGCTTTTAGTAGGAAGTCACTCCTCATTTTACATCAGAGAATTCATACTG
GAGAGAAGCCGTATGGATGCAGTGGAATGTGGAAAAGCCTTCAGTAGGGAAGTCGCAGCT
TAAAAGACATCAGATAACGCACACAATAGGAGAAACCT

Sequence 2555

NTTTTTTTTTTTTTNTTNNNNNNNGNGNNCATATTAATATANGGCGAATGNAGCTCCACC
GCGGTGGCAGNGGCCGCCCGGGCAGGTNCAGAGGACACACATTGTANACAGGCCTGTGTCT
ATGTTTCCTTACAGTCGTTTTTACAGAGAAAAGGGGCATTGTTTTTCACTGCTTTCTC
AACANTTCCTTGTGAATAAATGAAACATTTGGAACCTCCCTNGNTGNGCAAANAGCCCTT
CNACTTTTGNTTNNTTTGCCGGGNTAGCCCNNGGGAACCCATTGTTGGTTTGGGTGGAAA
TTCGNTGNTTNNCCCTTGGTCGNGGGGGGGGCCCAACNTTNNACNTTCAAAAAATNN
GNACNAANCACNTGGGGAANGGGGGCACTTAGNTNTTTCGCTTATCCCCCTTTTAANN
CAACCTTTCNNCTCTTTTACACACNCAAGTCCCTCGGNACCTTNTCCNTTATNGNN
CCCTTCCACCTNNNGCGCCCCNAAAACCTCCAAGGNNANCCAACCGCCTTGCAAAAA

Sequence 2556

TCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGAACAATGAGG
TTTCCCACAGCGGAGTCTCCCTGGGCTCTGTTTGGCTCTCGGTAAGGCAGGCCTACACCT
TTTCTCTCTCTATGGAGAGGGGAATATGCATTAAGGTGAAAAGTCACCTTCCAAAAGT
GAGAAAGGGATTGATTGCTGCTTTCAGGACTGTNGGAATTATTTGGAATGTTTTACAAA
TGCCCGCGTACCTGCCCC

Sequence 2557

ATACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACGCGGGGTAGATGGAA
GGAAGAACTTGTGTGCTTAGACCTGACGCTGGGAGGAGATGCTGCCACCTAGGTTACTTG
TAGGACCTATACGGCAACCTCCCTTGCCAGGAACTATTTATAAACATCCTGCAGGAAAA
TGCAAGTGAAGTAAAAAGAAGACAGGGACATCCCAGAAGGTTATGCAAAACATCAAGAGAA
GATGAGAGGAGTCTATATGTCAGAATACACATTTCCACCTTGCCCAACAGTNGAAAAAA
AAAAAAAAAAAAAAAAAAGTACCTGCCCC

Sequence 2558

TACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACGCGGGGTAGATGGAA
GGAAGAACTTGTGTGCTTAGACCTGACGCTGGGAGGAGATGCTGCCACCTAGGTTACTTG
TAGGACCTATACGGCAACCTCCCTTGCCAGGAACTATTTATAAACATCCTGCAGGAAAA
TGCAAGTGAATAGAAANANAACAGGGGACATCCCAGAAGGTTATGCAAAACATCAAGAGA
AGATGAGAGGAGTCTATATGTCAGAATACACATTTCCACCTTGCCCAACAGTAGAAAAA
AAAAAAAAAAAAAAAAAAGTTCTGCCCC

Sequence 2559

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGGCCCTGGGCCAATGCGTC
CTCGCTGGAGCCTTTGCCTCCTTCTACTGGCCTTCCACAAGCCCCAGGACATCCCTACC
TTCCCTTAATCTCTGCCTTCATCCGCACACTCCGTTACCACACTGGGTCAATTGGCATT

Table 1

GGAGCCCTTATCCTGACCCTTGTGCAGATAGCCCGGGTCATCTTGGAGTATATTGACCAC
AAGCTCAGAGGAGTGCAGAACCCCTGTAGCCCGCTGCATCATGTGCTGTTTCAAGTGCTGC
CTCTGGTGTCTGGAAAAATTTATCAAGTTCCTAAACCGCAATGCATACATCATGATCGCC
ATCTA
Sequence 2560
GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTT
GGTTTNGCNCGGNGTT
TTTTTAANGGAAANANAGCCNCCNACCTNAAAANCNCCCCCCTTGCCCNAGNACAAAA
AAGGAAAAGGGGNAANCNAAACCCCNCTNGGCCAGGGGGGGGNAGGGGNTNAAAGGAA
AACCNNGGGCCCGNACNCNGGCGGGGGNNGGGGGGCATCNGCNNGAAAANCNGGCCTCCA
NCCCCNAACTNGTGGGGGANAAAACNNGNNGGGGGGCCCNCCNANAACANGGGACCC
CCNNGGAAAAAANNAATCCCNAGGGCNAAGNCTNAAAAAANNGGGGAACCCCCC
NAGGGGGGGGGGGCCCCCNGGACCCCCCAANNCTTTTNGGNTCCCCCTTAAANGGGGG
AGGGGGG
Sequence 2561
TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTGTTTTTTTT
TGAGATGGAGTTTTGCCCTTGTGTCCAGGCTGGATTGCAATGGCACGATCTTAGCTCAC
TGCAACCTCTGCCTCCCGGCTTCAAGCGATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGG
ATTACAGGTGCCCGCCACCACCGAACCAGCTAAGTTTTTGTATTTTTTAGTAAGAAGAC
GGGATCTCACTGTGTAGCCAGGATGGTCTCGATCTCCTGACCTCGTGATCCGCCGCT
CGGCCTCCCAAAGTGCTGGGACTACAGGCGTGATCCACTGCGTCCGGACTTAGTTTTAAT
ACTATCATTGAATAATTACATACAAAACCTAGATTCTCTGTATATTCCAGATAAAGACAT
CTAAGACCCGGGAAGTTTAAAGTTCAAAGNTGGTGAACCAGAAAAATT
Sequence 2562
CTCCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGATATATAACAATGA
GGTGCTCCATCAACCACTTTCTGAAGCTCAAAGGAAATCCAAAAGCCTAAAAATTAATCT
CAATTATGCAGGAGATGCTCTAAGAGAAAATACATTGGTTTCAGAACATGCACAAAGAGA
CCAACGTGAAACACCAAGTGGCCAAATNGAAGGGAAGCTGGAACACATGGTNTCAAACCG
AACAAGATAATGTGAACAAACACACTGAACAGCAGGAGTCTCTAGATCAGAAATTATTT
AACTACAAAGCAAAAATATGTGGCTTCAACAGCAATTAGTTCATGCACATAAGAAAGCTG
GCCACNAAAAGNCAGGATTACCATTTGGTATTTTCATTTTTCTTGGGAGAGGGAAAAATGCCA
ACATCATCTTCTTAAAGGAGAAAAAATGAGGAGGATATTTTAATTACCAATAACCAT
TTTAAAA
Sequence 2563
ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGCTTTCCCCCAGTGCAAAAGACTG
TTACTTTATTATTGTATTCAAAATTCATTGTGTATATTACTACAAAGACAACCCCAAACC
AATTTTTTCTGCGAAGTTTAATGATCCACAAGTGTATATGAAATTCTCTCCTTNC
TTGNCCCCCTTTCTTTCTTCCCTCTTTCCCTCCAGACATTCTAGTTTGTGGAGGGTTA
TTTTAAAAAACAAGGAAGATGGTCAAGTTTGTAAATATTTGTTTGTGCTTTTTC
CCCCTCCTTACCTGACCCCTACGAGTTTACAGGTCTGTGGCAATACTCTAACCATAAG
AATTGAAATGGTGAAGAAACAAGTATACACTAGAGGCTCTTAAAGTATTGAAAGACAAT
ACTGCTGTTATATAGCAAGACATAACA
Sequence 2564
TACTATAGGGCGAATTGGAGCTCNCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTT
TTT
TTT
NNCNTNTNAAAAAAGGGGGGGGGGCGNAGNCNAAAAANCCCCAAAAACCCAGGGGC
NTNTNGGNAANANNAGCNGGCNNAGNNGGCCNNNANNGGCNAAACCCNAAAAAACC
GGCCCNNGGGCCTTNGNAAANCNANCNGGTNANATTNNGGNAAAGGGCCCTTTCCNC

Table 1

CCAAACCCNAAAA

Sequence 2565

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTT
TTTTTTTGCTGGGTTATGCCCCGCTCTTCACGGGCAGGTCAATTTCACTGGTTAAAAGTA
AGAGACAGCTGAACCCCTCGTGGAGCCATTCATACAGGTCCCTAAGGAACAAGTGATTATG
CTACCTTTGCACGGTTAGGGTACCCGCGGCCCGCTCTAGAACTAGTG

Sequence 2566

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATATTCATTGTANG
ACTTCCTGTGGATGAGCATGAGCTATCATGACCTCTTCTTCTTCCAAGACTGCAGGCTGC
TGAGAATCAAAGTGGGAGGGCTCTTGTGAGTCTGCTCGTAAATAGCCTTCAGTTCGATCA
TCTGTATCTACTTTCTCCTCNTTTTGTGGAAGNTTGAGGATTCATACCTTGGACAACCTG
CTTCTTAATCTCCACATCATCATATTTTCAGGTTTCTTCTGATTCTTTTTCTTCTTATC
TTTAAATTGTTTGATCAATGTGAAGGACATGTTTCAACAAGGAAACCATNAAATACAGGC
CTCCTAGAGCTGGTTAGACCTTCCACGTGGGAANTCAAAATAGGCACCTTTTCTTCTATG
TTTTNGAGAAGACAGAATGACTGNAAAAAGGTGGGTCTCTTTTTTCAT

Sequence 2567

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCACTATGCCTGGCTAATA
TTTTTATTTTTTATTTTTGTAGAGACAGGGTCTTGTTATGTTGCCAGGCTGTTCTCAA
ACTCCTATCCTCAAGCCATCTCCCATCTCAGCCACTCAACTTGCTGGAATTACCAGCGG
AAGCCACTGTGCCAGCCCCAGACTCCCTTTTACCTAGTATATCATGTCTAATTTCTAAC
AAAAAATTAACAAACATTGTAAGAGGAAAAAAGAAACCTAAACAAACAAAGCAACA
AAAAACCCAAACAAACAAAGTTTCAAGAAACAGAGCTAGCTGACAGAACTATATTAG
ATATGGCAGGTATATTAGAATTATCAGATTGGTAATTTTAAACAACTATGACTAATATGG
TAAGAGTGATAATGGGAAAAAATAGACAATTTG

Sequence 2568

CCGGGCAAGGTACAGTATATGTATTTTTTAAAGTGACCTCCTCTCCTTCCACAGACCCCCA
CATGCCCAAAGGCTCGGGACTTCCACCACCTTGCTCCACAGATCCAGCTAGGCCTGAC
CTGTGCCTCATCCCGTGCCGCTCGGTCTCTGGCTGATCCCGAAGGGCTTTTGTCTTTCCT
CTCGTCAAGTTCTTTGGGTTGTGTTTTTTGTTTTTTTAACTCAAAAAAAATAA
AAGACTTGAGGAAGGGTGCAAGCTCCCAAGTGCATCTGGGGCACATGTTTCTTGAAGG
GACTGTCTCGCCGACACTCGGGATTCCCTCTTGCTGCTGATGTTGAGGCTATGGGTGACCG
TGGTTAGTGGGACAGGCAGTGAGCAGTNGAAAGTGCCTGAGTGCCCGAATTGGTGGGGGA
AGGCTT

Sequence 2569

GCGGCCGCCCCGGGCAGGTACGCGGGACAGCGGCTTCTTGATCCTTGCCACCCGCGACTG
AACACCGACAGCAGCAGCCTCACCAJGAAGTTGCTGATGGTCCTCATGCTGGCGGCCCTC
TCCCAGCACTGCTACGCAGGCTCTG/3CTGCCCCCTTANTGGAAGAAATGGTGATTCCCAA
NGACGANTTATATTCCCACAATNTGGNTCTTAANGACCTTGAAATTAACCAAAAAGG
AAAC

Sequence 2570

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGNCAGGTACACAACAAGCN
NNGTCTNNCATAACTGAAACAGANGATTCTGNTTTAGAANAANGCCCATCTGAGCTTANG
AGCNTAGAAGGAAAAGAAGAAATATNAGGAGCTTTGTGCATCTTCTACAATGCCTGCAA
TTTCANAGCTTTTCATCATNGCTTTANGGGAGGANTCTCATANTGAATNACNTTAAACCTT
TCTCGTCCCAAGATCATCAGNCTANAGTCGGAAAAGAACCACCTGCCTCTGTAGCTGGAA
N

Sequence 2571

CATCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCGAGCATGAACATCT
GCAGCCTCTTGCAGAATCACCCCAAGGGGACTGAATCATGGTCCTCTTGATAGGTATG

Table 1

TTCAGCAGAGTTTCCAGTCCTGAGGTGTATGAGGCCAGCTGGAGCTCATAATCCTTAATT
CCCGCGTACCTGCCCG

Sequence 2572

TCCTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGTGGCCACCGTGCAAAGCTTCCA
CTTGGTGCCTGCGTGGAACGCACCACCTGCCGTGGAATTCTCTCTGCGGGGCAGAGGA
GGGGTCCCCCGCTACCT

Sequence 2573

ACTCACTATAGGGCTTTTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGGTTGGTCATT
CCTTAACCAAGGATCAANGACAAAAGGCCAGACAGCTCACTGCAGTCCAGGCTGCACGT
CGGAAGCCGGGCTCCGCGCGACTGCCCCGCGTACCTGCCCC

Sequence 2574

CCGCGGTGGCGGCCGCCGGGCAGGTACAGCAGGGGTTGCTTTGGTCATTGCTGTGTTGA
ACAGTGCACCTCCTTTCTTGACTGTATGCACCCATTGTTGATATGACCTCGGGTTCCTC
CACAAAAGCCACCTGAAGTGATCTCTTCTTCAAATACATCAAGAGAAACCCCTTCCTGCA
TTTAGTTTTTGCCAAAGTCGACCATCGATAAACTTGCTTAAAAAGCTGGAGGTTAACGGCA
GTTTCCAGGAACTGTTTCATCACCCTTGAGNCGGTGCTTTACAAAACCTCTCTACAGA
AAGTGATGGGCTCACCAGGTTTGATCTCAGTGCATCTCTGTAGGATCAAACAAAGCAG
CCTGTGCTCTAAGAAAGGCCCTAGCTACTCTCATCACCCGTAGCTGTAGACTGCTTCTTCA
GTTTATTTTTCAAGGCCGAGACCACATCACTTGGTAGGTT

Sequence 2575

CTTAGGGCGCAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAGGGATTTCGGC
CTGAGAGCGGGCCGAGGAGATTGGCGACGGTGTGCCCCGTGTTTTCGTTGGCGGGTGCCT
GGGCTGGTGGGAACAGCCGCCCGAAGGAAGCACCATGATT

Sequence 2576

CCGGGCGAGGGTCCCCGGNANTTCCANAATTTTNCNTGGCNTCNAAGGTCTTTGAGGNAG
AAGGCTCTGGGGCTTCTGCTTGTCCCTTTGGAGGGTGTCTTCTGGGTAGAGGGATGGGAA
GGAAGGGACCCCTTACCCCCCGGCCCTTCTTCTGACCTTGCCAATAAAAAATTATGGTCC
CAAGGGGAAAAAATAAAAAAATAATTTGCTTCTNGGCCCTTTNAAAATAAGTTGG
ATCCCCCNGGCTTGAGGAAATTAANNNTNAGCTTATTNATACCNTTCAAACCTTG

Sequence 2577

CCGCGGTCGGCGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGTAGGG
ATGGGGTCTCGATTTGTCTGCCAGGCTGGTATCAAACCTCCTGGGCTCCAGCGATCCTCC
CGACTCANCCTCCTGAGTAGCTTGGGATTACAGGCACGTGCCACACACGTGGCATCATA
CACCCATTTTACAGGTGAGGAAATCTGGTTACCCGACAGTAAGTGACTTGCCTAGGATG
ACACAGGTAGTAAATGGTGGAGCCAGTAGTAAAAACANATGAGTCCCTAAGTCTTCTGT
TCTCCCTTACTGTGTTCTGTCTTTTTGAATCCCTAANAGCTTTGTGCAATGCCCTGTCT
GCTGGATGAACCAACAACTGCTTTAAACTCTACCAAAAGTGAATCCCGGTACCT

Sequence 2578

CCGCGGTGGCGGCCGCCGGGAGGTACCGGGAGGCTCGCATGTGTGGGTGCATGCCGT
GGCAGGAGAAGGCACGTTTATCCAGAGAGTTGATTCTCCTTAATACCAGGAACTAGGCA
ACAGCAGGGAGGGGACAATCATGAGTCCTAGGCAGGAAAGGTCTCTGGAGAGAGGAAAT
GGCACACGCGCCCCCGCGTACCT

Sequence 2579

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTT
TTTTTNCCTTTTTAAAAAAGTTATTTATTTATCTTTTTTTTTTTTTTTTGGNAAGGTT
GAATGCNCTTTTGGTTTTNGGTCATGTTTCGGTTGGNCAAGATAAAAACTAAGTTTGANA
GATGAATGCNAAGGAAAAAATATTTTCCAAGTCCCATNGTGAAAATGTGCNCCCATTT
TTTTGGGCTTTTGGGGGGTNCAGTTGGGGTTGCTGTCTGTTTCCCGGGTTGGGGGG

Table 1

Sequence 2580

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTT
TTTTGCCCCGAGCTTTTATTAGCCATCGTTACAGTCTCTCGTCCACAAACACTGCCCA
GCTCCCTTCCCAGGGCACTTTACTGGAGGCAAGTGCAAAACACTGTGGTGCTTTNTATTC
AAAGAAACAGAAGATGTNGCTGTGGGTGGTANACGGGACAGCCCAGNTTACCCACCAGTT
TTACAGNAAGGATCCCGCAGTGAGCTTTGATACAGATATGAGGATAGATGACGGTAAAGG
GGGAAAAGAGTTTAAATTATCAAGTTTCCTCTTTGAAGTGTCTTTCCCAAGGCACTGT
GAAGAACTGCTGCTAGCAATTTTCTAGGGACTAAACACACCGATGGGAATATAAATAT
TTCAACACAAACCCCTGTTACATTCTTACAGGTTAGTTTC

Sequence 2581

CCGGTGGGGCNGGGCCCCACGGTACCCCGGTNTCCCTTCCANATGGGCCAAAAAAATA
TCTTNTCCCCAANACAAAANCCCNAAAAATTTTGGGAAAGGAAAGGGGCAAAAGGGNGC
CCNNNAAAAAACCCNNGAAAGGGCAATTTTNGGNAAAGGGCNNTTTTTTTAAAAATTN
CCTNNGGAACCCNNTTGGGAAGNAAAAANTGGTTTTACAGGGGNAAATTGNATTAAACC
TTNAAAAAATTTTCCCTAAGTNGGGTNAAAGAATCTTGAAGTTACCCCTGCCCCNGGGG
NCCGGGCCCCGGCTTCTTAAGAAAACCTTAGGTNNGGATTCCCCCGGGGGCCTTGCAA
GGGGAATAATTTCCGAATTAATTCAAAAGGCCTTTAATTCCGAATTACCCGGTCCGAACC
CTTCAGAAGGGGGGGGGGGCCCCCGGGTTACCCCAAGCCTTTTTTGGTTTCCCCTT
TTTTAAGNTGGGAAGGGGGTTTTAAAAATTTGGCCGCCCGCCTTTTNGGNCCGGTTAAAA
TTCCAATTGGGGTNCAATTAAAGGCCTTGGTTTTTCCCCTTGGTNGGTTGGAAAAATTT
NGGTTTAATTCCCCGGCNTTCAACCAAAATTTTCCCCACCACCAAAACCAATTACCCG
AAAGNCCCCGGGGGAAAGNCCANTTAAAAAAGGGTTGGTTTAAAAAAGGCCCTTGGG
GGGGGGTTGG

Sequence 2582

CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGGTCCAGGTTTCAGAAGGTTTGATGC
TATACATTGTGTGAATTTGAGGTTATGATGGTGGCCCAGAGAAGGTTGGGAGGCATTAG
TGTAAGTGTGGAGGGATTTGTGTCTCACAGAGCATAGATCGTATTGTGAATTTCACTT
TCACAGAAGCTGTCTCCCTCTCTGCCAGGGTGACATTCCATGGGACGACAAGGATTTCA
GGATGTTCTTCTCTGGACTGCTCTGTTCTGGGGTGGAGTCATGTTTTACTTACTGCTCA
AGAGATCCGGGAGAGAAATCACTTGAAGGACTTTGTCAATAACTATCTTTCAAAAGGAG
TAGTAGACAGATTGGGAAGTCGTCAACAAGCGTTTTTTGTTGAGTGACCTTACACCAGG
AAAACTCCTGTTGATGGGGTAAATCATTTTATTA

Sequence 2583

GCCGAATTGGAAGCTCCACCCGCGGTGGCGGCCGANGGACTCTGGCGTTGGTAACAATGG
TTTCCNNGANCTTNGGNTNGTAACNACTGCTTCCNNGGAACTTCTGCGTTGTAACCACTG
GCTTCCCGGACTCTGCGTTGTTACCACTGCTTCCCGGACTCTGCGTTGTTACCACTGC
TTCCCGGACTCTGCGTTGTTACCACTGCTTCCCGGACTCTGCGTTGTTACCACTGCT
TCCCGGACTCTGCGTTGTTACCACTGCTTCCCGGACTCTGCGTTGTTACCACTGC
TCTTCCCGGACTCTGCGTTGTTACCACTGCTTCCCGGACTCTGCGTTGTTACCACTGC
GCTTCCCGGACTCTGCGTTGTTACCACTGCTTCCCGGACTCTGCGTTGTTACCACTGC
GGCGGCCGGCTCTAAGAACTAGTGGGAATCCCCGGGGCTTGCAAGGAATTCGATAT

Sequence 2584

GACTCCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGCCGGGCAGGTACATCCAA
ATTGGGCTACGAAAAGTGGCAAGTTTGATTGTAGCATCATGTCTTTGAGTGTCTATTGG
ACTACAGATTAGAGGATAATAAAGAACATTCATTTGAGGTTTCATTGTTGCGGAATTT
TCAACGAAATGCTTCAAAAGAGATTTTNGGTGTCCGTATATACAAATCATTACTGTCTCT
TCCTGAGAAAGAGGACAAAAAAGAAAGGATAAAAAAAGCAAAAAAGATGAGAGAAAAGA
TAAAAAAG
AGGCAGCANAAGGTTTTGGAGCCAAGGAATGAAATGATGAGGCGTCTTCAGGTAATGAA

Table 1

CTTCAGCTTGCAGTGTGAAAGGGGCAGGGAAGACTGGCCAGCTGTCAAAAACCTGGAACAG
TC

Sequence 2585

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATTTTACAAAATTAAAG
TCACTTTGTAGGTATATAAAAAGTTTTAAAGTTGGTTTATTAATGAGAGTAGTGNATTA
CATTTCTTTTCAAGCAGTAATTTAAATATTAACCNCTTACTTTTTTTTAAAGGCNATTT
ANCTTTNCAGCCTGGGACCAACATNNGNGAAACCNCGTATTCTNCCAAAAATTGAAAAAT
TAGCNNGGCNTTGGGGGGNTCACNCCCGGNAGCGTGTTTCTTTTGGNNGGGGAAACCAA
TGNGTCTAAACNNGNCGNNGGGCACCNGGGNTATACCNACCTNTGNGGGCCTTTTCCN
TAAAAATCCCNNAATTTGGGACCCTNNGCCNNGGGCNGGGCGNTNTTNAACNNN
NGTGGGGGTCCCCCCCCNGGGCCNGNACGGGAAATNTCAATNTTCCNANCCNNTTT
NNGNNTNCCCCGGGCNNACCCCNNTTANGGGGGGGG

Sequence 2586

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTT
TTTTTTTTTTNATTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTGGGCAACACT
TTATTGGGAAANATTTACNCGGGGACCTGTCNTAGGCCAAGCNANNAAGGGCCC
CAGGANCCCTGGGGTCCCNNGGGGGGCTNAAAATGGAACCCATGGGACGGCCNNTNTAA
ACTAGNGGATCCCCG

Sequence 2587

GGCGAATCGGACTCCACCTTNGGTGGCGGCCGAGGTACATTTCTTGAGACTCTGTAA
TCTCCTGCAGCTCCTGNTTGGTTTCTGGAGCANATGAATCTCAATGAGGAGATCCTCG
TCGGTCCCAGCCCTTTATGGAAGCTTTANNCTCAGAANCCTCATACTGAAACAGGCNT
TTTTCAANAAGGNCCCNAAAAAANCACCCGGTTTTTCCAAGGGTAGGGCCNANAAAAA
GGGCCNAACTTTNCAANATGCCTTGAAATGCCNAANNGTNTTCCNTTTTNAGGGGTC
CCCCTTCTNCCTNNGGGGNTAANNGGCCNAAGGCCAAATTAANTCCCTGGNACTTCT
TGGNNGGCCAATTNNGGGCCCCCGGCCNGGTAANCCCGGGCCCCGNGGGCCNAAGGNC
CAGCNTNCNTAANAAACCNAAAGTNGGGNAATCCCCCCCCGGGGGCCNTGGCAAGNGN
AAATTTATCCNAATTATTCAAAAGGNCNTTTAAANCCNGAATACCCCGNCCCNAACC
CCTTNNGAAGGGGGGG

Sequence 2588

ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGGGCAGGTACACTCCT
CATCATCACTGTTGCTTGAGCACCGAAGAAGAGTGGCCCAGCCTTTTGGGTGCAGCTGTA
AGGACGTGATGCAGTTTCCGTGGTCACTCTCACCAAGAACTCAGGGGTACGACTTCAA
GACTATTTCTGGTGAAACTCCTGAACCTTGAAGTAGTTCTTCTTGCTCTTAAATGGGA
TAGCTGCCTACTTCTAAAGACTTAGTTAAGTCAAGGTATGCAAAATTAAGAGATATCCA
GAGGACGTTGAAATCAACATTTTGAACAATCTGGTGTTAACCTCATTGCGATGAGAAAA
CGTGTGTGAAAGAATTTCTTATGTGGACACCCATCTTCTGTATACCTGTTAGTGCCAA
ATAATGACATTTCCATCAAATCCTGATGTTACTAAGAGTCTGTATTAAGTATCA

Sequence 2589

AATTGTTGCTCCNCGCGGTGGCGGCCGCGGGCAGGTACGCGGGAACATAAATTGATT
TCTCACTGTTCTGTGGGCTAGATTGGCAAAGATCAAGGCATTGGCATGTTTTATGTCTTA
TGAGGCCTGCTTTTGACCACTAAGATGGCACTTTGAAAGCTGTGTCCTCACATGGCAGGA
GGATGGAAGGGGAAGAATGGGTGAATGCAATGTGAAACCTCTTAAATATCATTATCCCA
TTCACCAGAGTGGAGCCCTTCTTACTTACCTCCTAAAAATCCTACCTGTTAATACTATA
TATTGGTATATAAGTTTTAACATATGAATTTGGAGAACATATTTAGACCATAATAATA
TTAATAGTTNACCCAGATGTAATAAATATCAAGCAATATAATTAATAAATTTCTACCTC
ATAAGTAAACTACAGG

Sequence 2590

CNGGCGAATTTTTCTCCTNGCNGCGGCGGCCGAGGTACGAACTTTTCTCCANAGGATANT

Table 1

TAGGTTGCACNNTTGTATTTGTA AACAGGAGCAAATTTGGACCTTGCCGGGCCAAAGTC
GTGTACGTGGAACCTCTTAATCTCAGCATCCGGAGCTCCAGGAAGGGAAAAATTTCAAGT
CAGATAGAATTCTATATATACCATTTCTTTGGAACCTTCAGCCCTCAAGATTCCAACATC
ATGACCTCAGTTTCAACACAGTTGTCCTTAGTCCTCATGTCACTGCTTTTGGTGCTGCCT
GTTGTGGAAGCAGTAGAAGCCGGTGATGCAATCGCCCTTTTGTAGGTGTGGTTCTCAGC
ATTACAGGCATTTGTGCCTGCTTGGGGGTATATGCACGAAAA

Sequence 2591

CCGCGGTGGCGGCCGCGCCGGGCAGGTA CTGTGAGCCAGCACTCCCTGACCTCAGGGTGTG
TGAGGAGTTGGCACTGTAGAGAGAAACCAAGACTCTTCCTCAATGCCTGCCTTATTCTGA
GCACCCACCCCTAGCTCTGATAAGGATCCCGGTACCGTGCCCTACAATGACACACAAAT
CCCATTAATAAATTATAACAAGGGTCAATTCAAATTTGAAGTAATGTTTGAAGGA
GAGATTAGAAGACAACAGGCATAGCAAA TGACATAAGCTACCGATTAACTAATCGGAACA
TGTA AACAGTTACAAAAATAAACGA ACTCTCCTCTTGTCTACAATGAAAGCCCTCATG
TGCAGTAGAGATGCAGTTTCATCAAAGAACAAACATCCTTGCAAATGGGGTGTGACCNCG

0

Sequence 2592

GGGCGAANTGGAGCTCCTTTGCGGTGGCGGCCGAGGTA CTGCACATCCTTTTAGTTATC
TTTTTTTATATAAGTAAAGNTCACACACATAAATTCAC TTGAATTTGATAATTTGGAACA
TTGGCAATGAATACAGTGCCTGTTGAGGCCTGAAAGAGAGAGGAAATCAAGAACAGTGTG
GGAGAAAGAAAGGCAATCCTTCGTTGAAAAGCTTTTCTCTTAACAATCCTTAGTGCCTGAA
AAATAAGCCATTTTGATAACAAGAGTATAAAAAGCCTTATGATCTGCAAAGTAAATCGTA
TCTGGTTTAAATTTTCATCCCAAGTCTCAGGTTATGGCTGAGGAGCTATACTAAGGATCTT
TGNAGCNCATTTCTTTGAATTTTATAACTAAGACAAGAAAATTTTTTATCAGATCTAG
GCAGAAATACTGATC

Sequence 2593

CCGCGGTGGCGGCCGAGGTA CTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TT
TTTTTTTTNANNGGGNAAAAANCCNNCNNNAATANNNTCCN NNCAAAAAANATTAAN
AAAANGGGNANANAAAAAANTACAAANNAGAAAAACTANAAAAAANGGGNAAAA
ANATTNNTTTTTTTCCCCAAAAANNNNTNTTAGGGGCCCTAAATTA AAAAAAATTN
ACANANNGAAAAATCNAAAAAAAGNANNGNAAAAA AATTA AAAAA

Sequence 2594

GTGGCNGGCCCGAAAGTAAC TTTTTTTNTTNNNAAAAA NAAAAA AAAAAACANANAGAA
NANAAAAA NAAAAA NAAAAA NAAAAA NAAAAA NAAAAA NAAAAA NAAAAA NAAAAA
ANNAANATANAAAAAACCAAAAAA NAAAAA NAAAAA NAAAAA NAAAAA NAAAAA
AANATAAAAAA NAAAAA NAAAAA NAAAAA NAAAAA NAAAAA NAAAAA NAAAAA
AAAAA AAAAAA AAAAAA AAAAAA AAAAAA AAAAAA AAAAAA AAAAAA AAAAAA

Sequence 2595

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCG GCAGGTA CTTTTTTTTTTTTTTTTT
TTTTTNNNGACTGAATCCAGCTTTATTAAGATACTTCCATAAACAATCATGGTATTNC
AGGCNGGACANGGTGCAGACAANTGTAAACAGTATACAACA ACTTTC

Sequence 2596

CGAGGTACATGAAAAATTCATACTGGAGAGAAACCTATGAGAACCCTAACCCCTAACGC
TTCAGTTGTCCAGTTCTTTTCATGAGCATGAAAGGAGTCACATAGAGAAACCCCATGAAA
GTAAGAAATTTGGGAAAGCCTTCAGTCTTTCTGTTTCTTTCAACTACGTGAAAGGATTC
ACGGTGGAGAAAGACCCTGTAAGATAATTGGCTTTAAATTACGAGAGACTTGTGATAGGA
CAGTAAACCTAGAGTTGGAGTTGGATCTCTGGATTGTGTTATGTCAGTGTGGTAGGTT
AGGAACTAGATTTCCAGAATCCATTCCATTTGTGATTCCATGATACAATTCACCAGTAA
CCTATCTTTACATGAGATTCNGGAAGTAAGTTAAGAAAGGCATTAGTCATGGTTTGAAG

Table 1

CACCATACAGGGAGACAGCTGTGTGAATACAGGCTGTATGGACACTTGCTTCCATCCCAT
TTTCCTGCTTCTTTGGGTGGCAATCAAGAGTATCCTCAAAACGACTTGACTTTAATTTT
CT

Sequence 2597

CGCGCAGTCCGCCTGACTATACTACCTTTAGTAAATAAACCNCCCTTTTCNGGATGCCACT
ATCTCCGATGGCACTATACCCTCTCTACCTTCTATACCACTAAATTAAACCAACTCCCCT
CCTCCTCCCAAGCNATAAAATAAAATATACAAACCCTGGGCCAAAATGANNAAAATCTG
TCNTTATTATTGCCCCACAATCCTAGCCTCNCGCCGAGACCTCGGCGNTCNAACCTAAGT
GATNCCCGGCTGAGNATCGTATAAGCTNATCGATCCGCGCCTCGANGGGGNCCGNACCC

Sequence 2598

CCGCGGTGGCGGCGGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGCTTCCTTGT
CTTTGGTTTCATTGTTTTTCTTTATCCCATTTCCCCCTCTAGTGGTCTAGAAGTAATAA
ATCCTAATACTGCGTTTGTAACTTGCTCTTACATATTTGTATGCAGCCAGTCACAAG
TGGAATGTGACTAGAAATCCTTGTTACTCAAGAGGCTGAGGTTGAAGGATCGCTTGAGCTC
AANAATTTGAGTCCAACCTGGGCAACATGGNGAAACCCCATNTCTAAAAGAAAATNCNCN
CAAACTAAGCTTGATTACTTTTATTTTTCTCCAGAAACAAAAGAAATCNCNCTNTGC
TGNCATACTACCCCTNCCCACACTGNTCCTTCAGCAACATATACCATTTGTTTTAG

Sequence 2599

NGGCGGCCGCCCGGGCAGGTACTGGCTTCCTTGTTAATCCTTTATCCCCTTCAGGTGTTA
TTCAAATGTCATCTTCTCAAGAAGGCCCTGTGTGATTAGTTTATTGAAATTATTCCACTC
AACTCCTATGTCTAACACTATTCAAGTCTCCTTTCTGCTTCAATTTTCTNCTGGGCTT
CNTACCACCATCTNAACCTGGGAAACCATGTAATATTGTTGACATTATTTGGGCTTAGN
ATTAATTTTCACCCCATTTNAGCCATNGTAAACCTCCACGAAAGGCCTTTTATTTTACT
GCAAGTATTTTNTGCCCACCCTAGAACAGTATTTGGGTTATATAAGCAAGGTCACCTTAA
AATATTTTGTNTGAATGGAAGTGATGTAAGAAGGAAGGGTTCCAAAAAAGCCCACTTGG
GAAGAATGGTCATGGGCTTTGACCCG

Sequence 2600

CAGGTACAGTGGATTTTTCATTTGCAAAGACGTTAAGCCCTCCAAATGTGCAAATCATGA
AGTCAGTNGTTGTTCCAGCAAGGTTTGCCCAGCGGTAAAAACAAGATAAACTAATGCA
CTAGCTGAAACCAGGTGGGGAGACCATGTGTGGTAGTGCTTGGGGGTGGAGGGAACTAT
TTCTGAAATGAGGACTTAAAGTATAATACCAGCTTCACTGCCTGTTACATGAGAAACCA
AAGCTTCAATTTAACTGCANGCAATAGGAGTTTCACTGTCAGCACCAACTGTCTAANA
TNCAAACTAGTATCTAAATGTGTAGGATCAAAACCAAAATCTGGAGGGATCTAGTTAA
ACTTCAATATGTCATGACCCCAAGATTCCCN

Sequence 2601

AGGGCNAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTTCTTCTGGCAG
TGAATGGTCTGTATTCCTCTAGTGATGATGTGATCGAATTAACCTCATCAAATTTCAACC
GAGAAGTTATTCAGAGTGATAGTTTGTGGCTGTAGAATTCTATGCTCCATGGTGTGGTC
ACTGTCAAAGANTNACCCCCCNANTTGGAAAGAAAAGCCAGGCAACCTGCATTTAAAG
ATGTTGTCAAAGTTGGTNGCAGTTGATGCAGATAAGCATCATTCCCTAGGAGGTGAGTAT
GGTGTTCAGGGATTTCTACCATTAAGATTTTTGGATCCACAAGAAACAGGACCANGAA
GNATTACCAAGGTTGGGCAAGAACTGGTGAANCCATTGTNAGATGCCTGCGCCTGAGTGC
CTCTGCGCCAG

Sequence 2602

CCGCGGTGGCGGCGGCCCGGGCAGGGTACAATACAATCTAGATGACGGTGCAGACTAAGT
CAAGAACTAAAGTTGTGCAGTAACCCGAGTTAAGGCATGAATGCAGACACACATGCAC
ACACACAGCACCCATGCTATCAAGACACAGGATTTTTTCAGTTGCCTCATGAGAGGGCAA
CCTGGGCTTGGCAGTTAATCAGAACTGCTGAGCATTCCAGAAAATGCCCCCAGGACTTT
ATGCTAACAGCTGTGTGATGTTTTAATCAAAAAATTAAAGAAGAAAAAACCCTAA

Table 1

CTTAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGGCTGC
ATGCTGTGGAGGAGGGTTTCAGAGGAGAGAGGTCCGAGAGCAGAGGCCTGAGAAGCCAGA
GGCAGGTGGAGAGAGGGTGGAAAGTGAGCAGCGGGCTGGGCTGGANCCGCACACCGCTNT
CCTCCCATGNTAAANNNGCCCCCTTAGAAAAATTTACAAAGTCCCCCTTCCNAANTAAA
NNNANATATATATTTTATAAGTTACNCTNNGGCCGCTCTAGAACTATGGNGGGNANTCC
CCCCGGGCNTGCAGGGNAAT

Sequence 2610

GCAAATTGGAGCTCCCCGCGGTGGCGGCCGGGCAAAGCGATCGGAACCCGGGAATGAAAT
CGTCCCAGGCGCGGAGTGGAGCGATATTAACGTCCATGTTCTCAGCTTTGCGTTCTTCGC
CTCCAGAATCTGGCGGCGGCGGCGGCAACCGATCAGCTGAGCTGAGTTGGAGCTTG
ACAACCCCCGNGNTNCCNTTTGGCCNGTCTTAGAACTAANTNGGATCCCCCGGGCTG
CANGGAATTTTCNATANTCAAGCTTATCCGATACCCGTTTTTTTTTTTTTTTTTTTTTTTT
TT
AGTAAATCATTGGT
CATAAGANTGATTTTCTGTGTGAAAAANTTGNTTAATTCCGCCTTACCAAATTCCCAC
CAC

Sequence 2611

TCCCCGCGGTGGCGGCCGAGGTACGCGGGTGTTCTTTTTGTCAAAGTCTATTTTTATT
CCTTGATATTTTTCTTTTTTTTTTTTTTGNNGATGGGGACTTGTGAATTTTCTAAAGGT
GCTATTTAA

Sequence 2612

GAGCTCCCCGCGGTGGCGGCCGTTTGAGAAGCCAGCGCTACCCACCCGGGGTCTCTGTG
CATTGACCTTTGGGTGCTGACTTGGAGAAAAGCACAAACACGACCAGTCCCATCCTGGCT
CCCGTGGGGCTTCTTCTATCTACGCATTGTATCGACTGCATTAGTTGGACTAAGAAGGAN
GCNTCANNTTAAAAGGGNGGAGACAAAATGCCTGAACTGGTCTAAAGCCAANGAAATGGG
CCCCAAAGCTGGGCAAGNAAAAAGCACCCTGCATACATAGGGATACAGAAGGGCAGAGC
TTCTGCCTGCGGATCTGCAACATTACATNTTGTTTTTGCCTGCAAACTATCAAG

Sequence 2613

CCGCGGTGGCGGCCGCTGGGACCTGCAATNACTACGCAAAACNCTTACAGCTTTTGGCTCGC
CACCATAGAGAGGAGCGAGATGTTCAAGAAGCCTACGCCGTCCACCTTGAAGGCAGGGGA
GCTGCNCACGCACGTACNCCGCTGCCAAGTNTGTATGAGAAGAACATNTNGAAANCCCT
GGANTNCTANATGTNAACAACATTGGTGCNTACTTTCTTCTTTCTTTTTTGTNTAAC
AGCAAAACNAAACCTTAANAAATTATANNCGNTGTGTTACCCTCGGCTCGACTTCTAGNA
ACCTANGTGNGA

Sequence 2614

GAGCTACCGCGGTGGCATGCGGCCGCCCGGGCATGGTACTCCTGCCAAGGCANGCTCCC
ACCGCTATGGGCACAAGGAAGTTGTCGTCATCTGCACTGCANNCTTGAGCTGTAGAATNC
T

Sequence 2615

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCATTGGTGGCCAATT
GATTTGATGGTAAGGGAGGGATCGNTNACCTGATNTGTTATATNAANGANTCAACGGGCT
GAACAAGGAACATCAGCATCCTTTATGAAATGGATCCCCAACATNNCAAGACANCCGTC
TGTTACATNNCACCTNNNTNNGCCTNAAAATGGCAGTCACCTTCATTGGCAATAGCACA
GCCATCCATGAGCTNTTNAAGCGCATCTGGATCANTTCACTGCCATGTTCCNCCGGAAG
GCCTTCCTCCACTGGTACCT

Sequence 2616

CGACTACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCCCGCCCGGGCAGGTACGCGGGGT
CCCAACCAAGCCCTCCAGCAAGGATTCAGAGTGCCCTCCGGCCTCGCCATGAGGCTCTT
CCCGTCGCTCCCGGTCCTGGTGGTGGTCTGTGTCGATCGTCTTGGAAGGGAGTGGTTTTCA
NAGACATTTAGAAAAGTGAAGGAGAACTCAAGATTGACTCATGAGGACCTGAAGGGTGA

Table 1

CATCCCAGGAGGGGCCTCTGAAATTTCCACACCCCCAGCGCCTGTGCTGAGGACTCCCTC
CATGTGGCCCCAGGTGCCACCAATAAAAAATCCTACCANAAAAAAAAAAAAAAAAAAAAA
AAANGTACCTCGGCCGCTCTANAAC TAGGTG

Sequence 2617

TNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTT
TTTTTTTTTTTTNGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTANCAAAAA
NAGGGNNGAAGTTTNTTTNTNTANCCCCNTTGANACNTTTTGAATTTGGAATTGGTAA
AAAAANAAACAAAAAGCCTTTGAATTGTTTTGGGGANCNNCAAAAAANANAAGTTT
CNTTTTTTTTTNNCAAATTNTACTGNTTCCAAACNTTTTGAAANAAANAAC TGAATTT
TGNNGGNCNCTTGCNCTGGTTGNCNANATTNNAACAAGAGGAACCCNTTTTGGGGTTAA
TTTTT

Sequence 2618

CCGCGGTGGCGGCCGAGGTACCTGTGTCAGGAGTCCCCAAGCCCACTCCCAAAATAGAAA
ATTCATAAAAGGAGTCAAAGGATTGAGCATACAGTAATATTAACAATAAGATTATTC
CAGCAGGATACAAAGCAAAATAAGAAAGTAAAGTGCATGGGGCAAAATCAGGTGAAAG
CTTCCAAGAGTCTCTCCAATGGAGTTACACAGGATGTGCTTAATACCTCCAGCAACCA
GTTGTGACAATACATGCAAAGAGTGCAAAGTCTTGTCCACGACGGATGTTCTTTTTTT
TTTTTTGAGAAAGCCTTGCTCTGTCAACCCAGGCTGGGAGTGTGGCACCGATCTGGGTGAA
GAGCAAGACTCCCGTCTCAAAAAACAAAAGAAAGGAAAGTTCCAGTCCTTGTC

Sequence 2619

CGACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTACAGATGCTTTTCAAGTTAATAGTTGTTTTAAAT
TTTTTTTTTTTTTTTTTAGGNTTAGGCTGAAAACNTAAAGCCTGCTGCTCCTGGGTN
TNATTTCTCAGCTTNTCCTTACAGCTNTAGTACATANAATACTCCTTTTTTAAAGTCTAA
NTAGCTTCANACCAAATCGGTCTGACCCAAAATACCTGCTNNTNTGGANAGNGGGATGGG
GAGAAGGTAAGTAAAGAAATGCAAGATCNTNTTACCCCAACAGCATAAAACCNCCCTAGC
TGGGGCTNTGGCTGGGAGGGAAATGCTAGTCATTTTTTCC

Sequence 2620

ATTGGAGCTCCACCGCGGTGGCCGGCCGCCCGGGCAGGTACGCGGGAAGAAGGGACAAAA
CTAAGGGTAAGCGAACTTTGGTTCTAGGAATGGCAAGACCAGCAAGAAGATCACCATTGC
CAACTGTAGCCTTTACACAATGTCATAGTAGCCCAAATTCAGTCAGCTATTGAATTAAGT
TTATTGGCTTCTCTTTNNCAGNTAAAAGAATGTATGAATGCTTGTCTTTAGAAGATAACA
TCATATGGAGGTTCTACAACCTCTTAGACACAATTGTCAAGCTTTTAGTAAATATACT
AGACATTCAAGAGATGGGATTGAAAACCAAGAGAAAGGGCAGACAATAGAAATATACTCA
CAGATGATTACAGGCAGTGGAGTTAAGACCAGGACTTGAAATAACAATGATAATTGTCAA
GAAAATAAAGACAGGGAAAAAAAAAAAAA

Sequence 2621

NCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTT
TTTTTTTTTTTTTTTTCAGGAAGTGTATAATTTTGATATTGAACTGTTCTACTTTTTTTTT
TAAATTTTATTTCCCCCTATCTTGCCTTGTTCTTCTAAGTCTGAAAATTTTTCTTTTT
TTCTTTCAANGTTGNNGTCTAACTTNTAATNNNAGGTTTAAAGACCTGCTAATATGTA
TTTAATTTCCAGGTTTTTTNAGTTTTCTATTTCTTTTACATAACGTTTCTTCTTGCTTC
AGTCATATAATATCCTGNGTTTCTGAATATTAATCTTCATTNGTTTTGAACATTTTTTTT
NTTACCANATGAAGAGGCTGATTGATTNGGAGTTTTCTTGACAGGGATATNCATGAGNC
CTTTTT

Sequence 2622

AGGTACGCGGGAGAGTTCTGCCTCGCTTCCCGGCGCGGTGCGAGCCCTCAGCCCACTTAG
GATAATGGCGACAGCTGAGGTACATTGTGATACAACTTCTTCACAGATGAAGGCCAGCAG
AGACAGCAACAGCTGCAAGCCCTTGAGAACGCGCCGGAGCAATGGGAGCCCGGCCATGAA

Table 1

AAAGTAGGCAGCGAGGCCGCTCCGGGGGCTCTGGCGGGGCCCGGGTCCTCCTCCGTAGT
GGGGCTGTACCTGCCCCG

Sequence 2623

AGGTACGCGGGAGAGTTCTGCCTCGCTTCCCGGCGCGGTGCGAGCCCTCAGCCCACTTAG
GATAATGGCGACAGCTGAGGTACATTGTGATACAACTTCTTCACAGATGAAGGCCAGCAG
AGACAGCAACAGCTGCAAGCCCTTGAGAACGCGCCGAGCAATGGGAAGCCCGGCCCATG
AAAAAGTAGGCAGCGAGGCCGCTCCGGGGGCTCTGGCGGGGCCCGGGTCCTCCTCCGTA
GTGGGGCTGTACCTGCCCCG

Sequence 2624

CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGCAGATTGATGTTGTTTCTAATTTTTT
ATATATAATTGACAAAATGAAGAACTTAACACCATCCTAGATTTTAGCTGCCCAAAGAA
TGAAAAGAATGAAAAAAATCTTTGAAAACCCACAAGTGATATGGATCTAATTTATGGT
TAAATAGATATAGATAACAAACAGAATACGCCTGTTTAACTGTTAAATGACATTGGT
TCTAATTATACTTTTATTTAAATTGAAAGACAAGGCATTTATATGGTATCTCTAACCATC
ACAACCTTTTGTGTGACAAAAAGAAATTATCACCAAAATACACCTCCTTAAGTAAGTGTCT
GATTTACACTTCCAGAAAAAGTGCTCTTTCTGGTCAAGCCAGCAAGAATTGAGAA

Sequence 2625

CCGCGGTGGCGGCCGAGGTACGCGGGCTCCCAAAATCCTGGGGTTACAGATGTGAGCTAC
CACTCACGGCCCAATCTTCTTGATCATATGTTTAAATATATTTTTTAATATTTGGAGCA
TGAGTTGTCACTTCTTGTTCCTTTTTTATAAGGAAATGTTGGAGAGTTACATCATTGC
TAATGTAGAAATGTTAAGTGGGAAAAATACAGTTTGGTAAATAAACTAGATTCTACA
TTTATTTGTGGGTTTTTTCCCTCCTTTCTTCCACAGCACTTTTGATATCAAGCAAGT
GGCTTCCTTTTTGAGATATTAAGAAAAAGAAAAAGTAAATGAAGCCCAAC
TACCTAACCTTTCTTATTGTATTTGTTTAGTATTGTGAAGTTGTGTTAAATAGTACC
TGCCCC

Sequence 2626

CCGCGGTGGCGGCCGAGGTACTGTTCCCTTCTGATTTGGTCTAGATACCAGAATCCATTC
TCTTCCGTCAAACGGAAGACACAAGGCACCTGAGGCTGATCCTCCCAGAAATTAAGTCC
AGAGGCTGCCACATCTGGTATGAGCGTCCAAACCCAGCATCGACAATGTAGTTCTTGCCA
TCAATGGTCACCTGCAGGAGAAGGTGAATCATGCCAGTGCTGTATTTTTTGGCTGGAGTG
CTGTAAACATACCCTCCCAACATCGTGGTCTCAAAACCAATAGTGGTCAGAGCCCAGTAC
AGAAGATGATTGACCTGGAGACACCATCCACCCCGATTCTTCTCACAACCTTGATCAAAA
ATGGCCTCTAAGCCTAAGTCCATGGCATCCCAACATGGGATGTTAAGGTTCTCAAAGGG
AACAGCTTCGGATCTGGTGTGAAGAATGTCAGTTAATGTT

Sequence 2627

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTT
TTTTTTTTTTTAAATTTTTTTTTTTTTTTTTTTTTTTTNCACCTCAGAAGGGGNCTT
TATTCATACTTGTGACATTTCCCATGGGAATGGTTNAAGGGAGGGGCAGGGAAGGGCTN
ANCGGNAACCCACGNTTGGTTTTCCCTCCATCCCNNGGGGAAAAAACTCTGTAGGG
NCATNCTAANNAAANGTGANCAGGGGANCCATCANTATGTGGGGCTGAAATNCACTGGNC
AGTGACTTNAGGCAACCNGAGTCCTTTTGTGAGGAAATGCAATTTNTAAGNGGAAAAAA
ANCAAGNCCCAAAGAAA

Sequence 2628

CCGCGGTGGCGGCCGAGGTACTCCGAAACAAGTAGAAAAGTGCTGTTTGAGGGATTTTAT
TAAATCTTTTTTAAATGGAATGTGGTACAGTTAGCTGTCACTCAGCTGACACCATGATGT
GGCAGCAGAGAGGGAAACCTACAAGTGGTTTGCCTCATTGCCTTTGCCACATCTGAAGTT
CTCAGCAGCACTACCTTAGACTTCATGAGCTAATAGGAACTTTTTATGGTGAAATGCT
GTAAGACTTTGTACCTGCCCCG

Sequence 2629

Table 1

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTT
TTTTTTTTTTTAGTAGAAGCAGGGTTTTGCCATGTTGCCCCCTGCCAGAATCAATTCTAA
TTATAGGAAAAAGTTTCTGAGTAATCAAAATTTGCACATATTTCTGGNGGATTCATA
GTTTAGCTTAGGAACTTGAACCTTACTGAGTTGGGTCTGCCCATGTANGATGCCTGGT
GTTGGTGTGTGCGCTCTCTTGGTTATAGAATAATCCACCCGAATCTTCTACCATCCAGC
TCCATTCCATTTGCCCTTTCCATAGCCTATAAAGAACAGGCACAAAAAGTCACCGTATAA
TTCACCAGTCTTGAAGTAATCATTACTTAAATTAAGCNCAAAGTNTATGTAATCCAAAT
AAACTCCTGATTTTCAAATGACAGCAATGTAGCTTGTACAGGGCATTGTAT

Sequence 2630

CCGCGGTGGCGGCCGAGGTACTTCCTCACAGTTCTCACATATGGAAAGGATACACACTTT
GTAGAAACAAGAACTTTATGTTATCCAAGTTCTAGGATAGCCATGAGCTCCAATTATCTC
AGAGCTCTGAGTCTCTACTCAATACCCATTGAGATTTATGTGTTCTGAGGCTTTTGTCT
TCTAGCTACTTACTTCATTCTCCATGGGTAACGGTCATTTCATCCACATTAATAATTTCC
TCACTCCAAGCTCTTTTCTAGAGATAATCTCCAGTCCCTGTGCAGAACTGTCATTGCAC
TTTCTGCTGAAATGGCAGTTTCTCTCAGCAAGGTGAGATTATGGAATCCAGAATCTTTT
TTCAGGGGTACATGCCCATTTCCCACTTGCATGAATGTGACACTGCAGCCACAGTTT
TGCCCGTAAATGTGAATTTGGCAAGTAACCA

Sequence 2631

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTGTGCTTAAACAACAGCCA
TTTTATTTAATATCTCATGATTTTGTGGTCAGGAATGTGGACAGAGCTCAGCTGGGAGAT
TGTTCCACTCCATGTAGCATCAGAAGACAGGTCTNTTGGTGATATTCAGCTGGAGAATAA
GTTAATATGCAGAGTTCAAGATGGTTTTCACTCACATTGACACCTTTGGCAGGGATGGCT
GGAGGGCTGGGCTCAGCCAGATCAGTTAACTGGCGTGCCTGCATATGCACTCTCCACCAT
GGTGGGTCTCTAGAAATTGACTCAAATTTCTAAGATTTGGCGATTGTATCCCGTCAGTCCA
AGCAAGCTGGTTTACCGGAACCAACCNAGNCTGCAAGGGCCAGGGCANCCGTGCCTGCA
AGGCCGTANCATATTGTTTGCTG

Sequence 2632

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACTTCAGTCTCAATTCTG
GAACTCTAAGAAAAACGTTCCAGACTTCTACGCAGCTGCCACCTCGGAGGACGGGAGAG
CGGGGGACGAGGAAAGATCAGGATAAGACCCTAACTCCACAAATGACTCCAGGAAAGGG
AGACCACCACTCCCCGAGCTTTGGAGCGCCGCGCGGGACCCGCGTACCTGCCCCG

Sequence 2633

ACTNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTT
TTTTTTTTTTTTTGGGAGGCTGGAGTGCACTGGCGCAATCTCTGCTAACTGTAACCTCTG
CTTCCCAGGCTCAAAGGATCTTCCCACCTNTCCTTTGTTTAGCTGGGACTACAGTAGGGC
ACCACCATGTCCAGCTAATTTTCGTTTTTANTAAAGATGGGGGTTTTGCCATGTTCTT
CAGACTGGTATCAAACCTCTGGCCTCAAATGATCTTCTACTTAGGCTGGCCAAAGTGCT
GGGATTACAGGCATGAGCCACCATGCCCTGAACTTTAAAAAGCATTCTACTATATGTTTT
TCTTTTTGATTACCAAAAAACCTNTATTAATAATCTTTTAAAGTTCATTGAGCAGAAANAA
GGAATTAGTCAACTTTAANACATGTTATTTAAATTAGCCACTTGGGGAAACAA

Sequence 2634

CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGAAAACGGAGTCCCTGAAATAACAGAT
GCAGCCACAGATCAGGGCCCCGAGAAAGCCCCACCCACTTCCCCTTCATCAGCCTCTCGG
GGTATGCTGTCTGCCATCAACATGTGGTTCAAAACACAGGTAAAAGTGCTTAACTGGA
GGCCTTGATGCGTTGGAATTCATCGGCAAGAAAACCATGAATGTCCTTGACAGAAAGTGAC
CCGGGCTTTAAGCGGACCAAGACGCTCATGGAGAGAACTGTTTCTTGTCTCAGATGTTA
AGGGAAGCTAAGGAGAAGGAGAAGCAGAGACTGGCACAGCAGCTCACGATGGAGAGAACC
GCGCACTACGGGATGCTGTTTGATGAATATCAAGGCTTGTACACCTGGAAGCCCTGGAA
ATTCTGTCCAATGAAAGCCGAAAGCAAGGT

Sequence 2635

Sequence 2636

Sequence 2637

Sequence 2638

Sequence 2639

Sequence 2640

Sequence 2641

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[illegible]

Table 1

CACCGCGGTGGCCGGCCGCGCCGGGCAGGTACGCGGGGGCCTCACAGATGATGACTTTCTT
CATCTTCTTGCTCTTTTTCCCATCCTTCACCGGGGTCTTGTGCACCCTGGCCATCACCAT
CTGGAGATTGAAGCCTTCANCTGACTGTGGCCCTTTTCGAGGTCTGCCTCTCTTCATTCA
CTCCATCTACAGCTGGATCGACACCCTAAGTACCTNGGCCCGCTCTAGAACTA

Sequence 2648

CGCCCGGGCAGGTACACATGGGGTTTCACCATGTTGGTCAGGATGGTCTCGAACTTCAGA
CCTCAGGTGATCCGCCCACCTTGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACC
NNACCCAGCCAGTTAATTTTTCTATTAACACAGACCTANTTAANATTGAGGCAAAANAA
ATGGGTCTTGGGATTTGAAAATTACTATNCANTTTGGAAGTTNAATTTGCAACATANAT
TGTCTGTTATTAATTAAGTACTAGATATAATATCNCATAGGTGGAAAGAAAGGTTGCTTAAT
AAAGATCTAAGTTACTAGTCATGGTGTGAGATATNGANAATGATTGAANGTTATNAAGAN
TCNCACACCAGATGAGTAAATTGNTGTTTTCNNGAAGAAGTTACATNAANGTNACCGGAG
TATATTTTCAGCATTTTTGNTANATTAATAAATTTGTNAAGCTATTTTCAATTTTCAGGGA
AATACTCTTAACNAANTTTACCGGGTAAATGACCAAATTCAGGTTAATTTTCACATG
TTAACACCCTCCTTGAGCCCTTTATTTTTTAAAGCTCTTNAATNTATTTTGGNCCTGA
AATTAACNNTTTCTTTAAGGAAGAATTTNAAAAATTTTTTGAAAAAAGTTGGAAAT
CNTGGAANAGGCCCTGGTTATNGTTTTTCAAAT

Sequence 2649

GGCGAATNGGAGCTCCACCCGCGGTGGCGGCCCGCCCGGGCAGGTACTTTTTTTTTNTNT
TTTGTNTNTTTTTTGGAGGACTGGGAAATAGAGGACTGGNAATTTGAGCAAAATNTGAG
GAATCTTAAATTCCTATTAGGACACCAATATGACGCATCAATNAATCATTATTT

Sequence 2650

GNAGCTCCACCGCGGTGGCGGCCCGAGGTACGCGGGGAGTCTTGGTTTTCTGCTAGTGCT
GCTGCTGGGAGGACGACGGACGGCAGCGGCCAAGCAAGAAGAAAGACGTGGCAGCAAGCG
GGAGTCGGGGATAGTGTATCGGTTTCGGTAAAGTTTCTGTTCTCTGATTTGGGGATATTC
CCTGCCCAAAAAAAAAAAAAAAAAAAAAANGTCCCTGCCCG

Sequence 2651

ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACGCGGGT
ATGATTGTATATGTGTTACTCCGATATGTAATCCATTTCACTGGCTGAGTTTGGCCCTA
GCCATGTGTTAATATAAAGTAGGCATGGCTTCCCAATGGAAATCTCTGAGAATGACAGTG
GAGTTGTGCAAGCATTTTACATTGCCACATAAATCGAATTTGGCCATTTTATGGTTAAAA
ACGGCACATTTAGGCAGTTGAATATGACCGTTACCTTGCAGACTAAAAGGTTGAAGGCC
GAACTAACTTTTAGCTAACAATAAGGGCTGTGCCCAATGGAACTGAGTTTCATTTT
CTGAGAAAGGTTTGGATTGACNTGAAATATTTTCTCTACAGGTCAAGGGACTTTGGCAT
GTGGTGGCTGAAAACCTGGAGCTTTTTTTGTGT

Sequence 2652

CGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACGCGGGATGTTT
GCCACTTTGCAAAGGAGCTCACTGTGGTGTCTGTGTTCCAACCACTGAATCTGGACCCCA
TCTGCGAATAAGCCATTCTGACTCATATCCCCATTTAACAGGGTCTCTAGTGCTGTGAA
AAAAAAATGCTGAACATTGCATATAACTTATATTTGTAAGAAAATACTGTACCTGCCCG

Sequence 2653

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACTTCCGAAGATGGGCTTGT
ATCTGGTTTCGGACGGACTGTTAATGACAATTTGATCGACGGGAATTGCACACCCCANAA
TCCACCACAAAAGAAAAAGGTTACAAATTTAACAATTTATAGTCCTTTTAATAGTTTTT
TTTTTTTCATAATACTACTGAGGGGAATTGGTNAGAATGTATNNATGAAGGCNTTCTTA
ATTTAAGTTATTAAGTTTACATTTTTAATTTTTTAAACCTTTTGTAAATGCTTGGCTT
AATTAGAAAATGTTTACAGAAAAGTAAAAAATCTAGTAATATGGGAAATCCTTGTAAAG
CAGCATGGTTTCAGAAAAATCTCAAGATGATTTATTTACCAAATTGAGTNTTTTTTAA

Table 1

[illegible]

Sequence 2655
CCGGGCAGGTACTCTNTTTTTTTTTNTTTNTTTAGGCAGNTNAAATCTAGGATGGTGT
AACCTTGTCTTCATTTNGCCAATNATATNTNAAAAATNANAAACNACATTGAATCTGCAT
TTCTTGGANNAGANNGTNNATAACAACTATTTCTCAATATTNNGATACTANAACTAGN
GAAGGNGCATGGGNTCCAGCNTCTTATCTNTNATNTGAACATGGGTTTCTGAANGGAGC
CTATATNATAATATAAATGGTNTGNNNAAAATGAGGCCAATAGCNTTGNCTGNNACTGCTA
TAAATAATNACCA

Sequence 2656
CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTAGGCAGCTAAAATCTAGGATGGTGTT
AAGTTTCTTCATTTTGTCAATTATATATAAAAAATTAGAAACAACATGAATCTGCATTTC
TTGGATGAGATAGTTAATAACAAACTATTTCTCAATATTTGTATACTAAAACTAGTGAA
GGTGTTATAGAGTTTCAGTATCTTATCTCTTATTTGAACATGGGTTCTGAAAGGAGCCT
ATAATAATAATAAGTGTATGTAATAATGAGGCAGCTGTCTGGCTGGGACTGCTATAA
AAAAATTACCATAGACCATTTGACTAAACCACAAACATATACTTCTCACAGTTCTGGAAGT

[illegible]

Sequence 2658
CCGCGGTGGCGTCTACCTCATTGTCAGCCTCCTGCTCCCCATTTTCCTCATTAGCATTCC
CGTTAGCAGGGGCGTCTCTTCCATTTTCTGCCTCTTCCACAACTTCCTTCTTCTCCTTTA
AGTCCTTGGTGGTGAATTCGGAGCTGGTGTCTACGGCTGCGTCTGACCCCGCGTACCTCG
GCCGCTCTAAGAACTAAGTGATCCCCCGGGCTGCAGGAAATTCGATATCAAAGCTTAT
CGATACCGCTGACCCCTCGAG

Sequence 2659
CCCCGCGGTGGCGGCCCGCCGGGCAGGTACGCGGGAGAGTTAGTTGATTTCAGTAGTTC
AACAATGTCAGTATAAACCCATATTTTGCTTAGCCATATATTGCTCAATTCTGCCATCCT
TGGGACTGGCTTCATCCTCAGGCTAGTAGCAAAATGGTTGCGGTGATTCCAGGCATCATA
TCATATCCATAAATAACAAC TTCAAAAAGAGGAAAAAGTATCTCTTCCCTGTGCCACTG
TTTTTGGATAGAGGAACTTTCTACAAAAACCTCTAGCAAACTTCTTTCCCATCTTTTTG
GCCAGAATTGGGTCATAGGCTAGTTCCTGAACCAGTCACCANTAAATAACCCTTAGGTTA
ATCACGTTTCTCAATCTGGAATGGTGTGGCTTCTACTGAGGTATATGGTTGTATTGGGG
AGAGATTCTGTTAAAGAGGAAGAGGGAGAGAATTGATGCTAGGAAAAGTAATTTGGAAAAAC
CAATAACTCTCTTCAGTGGTATTGGNTTTNTCAATAAACAGTNTTAGCAAGTTATTTTTTA
CTTTTTCAAAA

Sequence 2660
TNGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGA

Table 1

TTTTTGGAGAGGGACTCTCGCCCTGTCACCCAGGCTGGAGTGCAATGGCACGATATTGGC
TCACTGCAACCTCTGCCTCCTGGGTTCAAGTGATTTTCCTGCCTCAGCCTCCTGAGTAAC
AAGGANTAACCAGGCATGNGCCACCACNCCCAGCTAATTTTTTTGTATTTTAGTAGAGG
CAGGATTTACCATGTTGTTTCAGGTTGGTCTCAAGCTCTTGACCTCATGATCCATCTGCC
TCAGCCTCCCAAAGTGCTCGGATTACAGGCATGAGGCACTGCGCCAGCTGACTGATTTTC
TTTTGGCTAAACACTTTTTAAGTAGATGATCTATTTTTTCCCCCGTTTATGTATGCAATT
ATCACCAGGAAAATTGTAACATACTCAATAATATGGGCTTTACAATTGGACAGACACTT
TATTTACG

Sequence 2661

AATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTT
TTTTTTTTTACTCTCCTGTTGCTTTTCTTCTTTCCCTTTTCAGGCATCTCCTCGTTT
ATTTTCTGTAACACANANTGCTGCAAAATAATGTTAGGGCTTTGCAGTTTATTCCTTG
CNATNTAACTGCNTNAATNTAAAAAGGGNCCCTNACCATTANNNCNCGTTGGGGTTATTC
AAATAACCCAAGGGAATGTAAAGCGATTTCATATCTCCTTGAATCAGGAACATTAAATTA
TCATATTGATGAGAAATGCAACCGTTTTTATTTACCAGGGCAAGAGGCTGCCAANATCTT
TCTGAGTTTAANAAATTGCANACTCTGNCGGAGGGGAGGGAAAAATTNATTTAGTTNTTA
AATTGGAGGGGG

Sequence 2662

GCCGAGGCACCTTTTTTTTTTTTTTTTTTTTNGGGGGGATGGGTATNTNCCATGTNAT
ACCAACAGNTCATNAACTCCTGGGCATAANCCAGCCTCCCACCAACATCATTAACTTAAT
CANAGCACCAAGTGTCACATATGGTAACACANTCACAACCTCCCANGAATTNAAATTTTT
GGANNAGGTNGTACATTTTTTTNTGGGNCCTTTTNTTAATTCTNTNAACCTTTACTNN
NAGGATCTTGACCCAACAAAANAAAAAATTGGGCAGCCCAACACTTNTTTTNCCTCC
CTTTCCTTTTCCTTTAA

Sequence 2663

CCGCGGTGGCGGCCCGAGGGTACAACAACAAAGTCTGCCACCTTCTTGTTGTCACCTCT
GTGATCAGAAGTAGCAATCAGTGATCGGATGCAGATCTCTAATATTTGGAAGACAACATC
CTTTTTGCCACCCCTGGAGCCCATAGGCTGCATGCAAGTTTCTCCAAGAAGCTGGGGGATG
GGTAGCTGCTACCGTTTTTAAGAGCTAAAATTAATAATTGTGCTTTTACCTTATACCT
TCCCCTGGAATTTGCAAGCTTACAGTAGACTCCAGAGTTGCAAAAATAGTTACATTAGGC
AGATTTTGCCAGTATAATTGTTGTCTAGGAGCACGGCCAGACTCCTGGTGCTTTCTACCC
TTCCATCTTCCCCAACCGCTAGTTATTGAAACTTACTTTAATACAGGAATGTAAGCAGTT
TACTTTGTGTTTTTTCATTTTCATCACTTATGAATAACTCAGCTAGTGAAAACTTCTTA
GAGTAAATCATTTTTCTTTCAAATAATGTTGACATTGCTCTGTTGAAATCTAGTGTTTA
TTTCAGAGAAAGTCTGCGGCCAGTTTATTTTTATTTCTTTTCAGATTACCTGGCTCTAA
AGATCTGGGATGCTTTAAATCTTTTTCTTTTAATCAAATAACCCATGAAAATATCTTGG
GTGTGCCCGCGTACCTGNCCNGGGCGGGCCGNTCT

Sequence 2664

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGNCCGGNCGGTACGCGGGGGGAGA
TGCTGNACCTANGTNACTTGNAGGACCTATACNGCAACCTCCTTTGCCAGGAACTATT
TATAACATCCTGCANGAAAAATGANTCAAGGAAGCTTTTCTTTTGAGCTATTTACAGCTT
NTAGCAATTGAGTAAAGTATACTCCTGTGAACAAAATNNTGGAACATATNNGTNNTCTC
TAACTGATTNCTCCANAATTTGGAAGTAGTTCAGNGAANTNNAAGAGACAGGGATATCCC
ACNAGGTTATGCAAAACATCAAGAGAAGATGANAGGTCAGANATGGGAAGAAACAAGAAC
TTTGACATGCTTGGTGTNCTTGCCCAAGCTTTGAAGAAGTTACAAAGTCTATATGTCAG
AATACACATTTCCC

Sequence 2665

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAATGTGT
GGCAGTCCAAAATTACGAGGAAAATGAGTTCCTTCATGGGTACATCAGCAATTTTTT

Table 1

TTCCCCCTTTTGAGACAGAGTCTTGCTCTGCTGCCAGGTTGGAGTGCAGTGAGACCCCGT
CCCCAAAAAAAAAAAAAAAAATGCAAGTCTGGAAAAAAAAATAGCTNGGGAGTCAGTAATGCC
AGTTTTAGCTGAGGGAGTTAAGATCATTTAATCAGTGTTAAGGAAGAACTCAATAGTAG
TGACCACCAATACTTAAGGAAAAAGGATAAAGTACCTN

Sequence 2666

CCGCGGTGGCGGCCCGCCGGGCAGGTACTTGAAGTGTGACTAATGTGACCAAGGGAAGTG
AATTTTAAATTTTATTTACTTTAAATTAATTTAACTGAAGATAGCGACATGTGGCCAGT
GGCTACCACATTGGATACAGCCTTAGATTCTCCAGACCAGACAACCTTCTGTGGCCTT
CCAANGTTGNAACAGCAAACCTCACACTGTGGGCAGCCAGGCCTGGAGTGGGGGCCAGCAA
GCCGCATCCTGGGGTCAGGTCTGGCCAACTAATTATCTACTGTCTATGGTCACATTAGTG
CTACAATGGCAGCATCGAGCAGTTGCAACAGAGATGGTGTGGCCTGCAAACTGAAAATA
TTCATATTTACTATCTGGCCCTTTACAGAAAAACATGCTGACCCCTGCACTACAGCAATT
AGTTTTGGAGAGAACATTCTGATAAAAGCTTACATCTTCTCTCA

Sequence 2667

CGACTCACTATAGGGGCGAATTGGGAGCTCCCCGCGGTGGCCCGGCCCGCCCGGGCAGGT
ACAATCTCTGGCCCTACATTTTCTAAATGTTATGCCACCCCGACCAAGGGGCAACTCCTA
CAAAGCCAGGCAAAATAATAAATCATATTTGTCTCTAGTGGAATGGATAACTATGCCTA
AACTGTGCCCTTTGAAAAGCACTAGAGAGATAATTTCTGAAGTGTGTGCCCTACCTG
AATGTGTGGCAAAATTTCTAACTCCCTGAAGTGTGAAAGTGGTTCCAAGCCACATGCAC
ATCCAGTAGTGGTAAAGGGTGAAGTCTAACTGGCTAAGAGGGCTTCATAGCAACATTAA
CCAAAAAGTGGTTTATGTAGTCTTTGCCTGCTTCATAATCCCTANGCATTCTATGCTAT
TCTGCACCT

Sequence 2668

CGCCCGGGCAGGTACATCCAAATTGGGCTACGAAAAGTGGCAAGTTTGATTGTAGCATCA
TGTCTTTGAGTGTCTATTGGACTACAGATTAGAGGATAATAAAGAACATTCATTGAGG
TTTCATTGTTTGCAGAACTTTTCAACGAAATGCTTCAAAGAGATTTTGGTGTCCGTATAT
ACAAATCATTACTGTCTCTTCCCTGAGAAAGAGGACAAAAAAGAAAAGGATAAAAAAAGCA
AAAAAGATGAGAGAAANGATNAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAANGGTCACC
GTTAAGAAGTTGAGCTTTTATCTTAGAGGCAGCAGAAGGTTTGGAGCCAAGGAATGAAAT
GATGAGGCGTCCTTCAGGTAATGAACTTCAGCTGCAGTGTGAAAGGGGCAGGAAGACTGG
CAGCTGTCAAACTGGAACAGTCCAGTGAGTATGTNCAAGGCCCGGGCTTGGGCAGTGACC
ANGGCAGGGGAGCACCATCAATTTCTGCGGTAGAACCTTCTAGAGGAAGACCANACAGAGG
GTCAACAAGAGTTGAAAGGAGAAAAATATTGAGGATGANGTCCAAGTTTTAGTTTCAA
ANACTAGGCATATGGGTAATNCCGCGTCCTTGGCCGTTNTANAAGTAGGGATCCNCGGGC
CTGAGGAATTCGATATCAAGCTTATTCGATCCCGCCANCCTCAGGGGGG

Sequence 2669

TCACTATAGGGCGAATTGGGAGCTCCCCGCGGTGGCGGCCCGAGGTACCTGAAAAGTGACG
GGGAGAATGGAACCAAGTTGGAAAACACTTTGCAGGATATTATCCAGGAGAACTTCCCCA
ATCTAGCAAGGCAGGCCAACATTCAAATTCAGGAAATACAGAGAACGCTGCAAAGATACT
CCTTGAGAAGAGCAACTCCAAGACACATAATTGTCAGATTCACCAAAGTTGAAATGAGGA
AAAAATGTCAAGGGCAGCCAGAGAGAAAGGTCGGGTTACCCACAAAGGGAAGCCCATCAG
ACTAACAGCTGATGTCTCGGCAGAAACGCTACAAGCCAGAAGAGAGTGGGGGCCAATATT
CAACATTCTTAAAGAAAAGAATTTTCAACCCAGAATTTATATCCAGCCAACTAAGCTT
CATAAGTGAAGGAGAAATAAATACTTTACAGACAAGCAAATGCTGAGAGATTTTGTCAA
CAACATTTGAATATTATAACCTGCAGGGGTCTGTCTGTCAGATGGTTGAGACCATAACCA
GATACTGATATTCAGTGAAAGAGCAGCAAGGATTTCCGAGCTGATTACCAGACCCCAANG
GAAGATGCTTGTAAGAGCCCNCCAGCCACAGNCCTGGCTTGCTNGCCCTGGGGGCATT
ATTAGTAA

Sequence 2670

Table 1

AGGGGCGAATTGGGAGCCTCCACNCGCGGTGGGCGGCCCGAGGTACTTTTTTTTTTTTTT
TTTTTNTTTTGGGCCTAATTGCTTTGGGCTGAAGACAGAGTGAGGCGATGTACTGTAAG
GCGAACACCTTNTGCACAGCAAACCCGTNATTCGCTCACCTGTNTGNGGTNAGGCTCTTG
TAGAGAGTGANCACTCACTANTAGTTTTTAATAATAAACANGTAACCAAAGTGAGATGA
AGGAACTATTTTGGGA

Sequence 2671

CCGCGGTGGCGGCCGAGGTACAAGGCATTTAGAGAAAGCTTTTTGATTCCATTCAATCCT
GGAAACCAACATGTTGAAGGGCCAGATTTTCCACCATTTTATASGGATGCAAACCTTAGC
TCAGAGAGGTTAAATGACTTGCCAACAGTCACACAACCTAGCACTTAGAGGAACGGGAAGG
CTAACTCGGAGCTGATGCTGCAGCTTACACTCACTCCCCACTCCCACGCAACACAACTC
TTTCTAGGCAGCTTCGAAGGTACCTGCCCGGGCGGCCGCTCGA

Sequence 2672

AGGTACAACGCCTGGAACGAGAAGCGCAGGCTCTACGAAGAATAGGGTGAAAAACCTCAG
AAGGGAACCTCCAAACAGTTGGGAGACTTGTGCAAAGGACTTTGCAGATTAAAAAAA
AAAAAAAAAAGCCTTCTTTCTCACAGGCATAAGACACAAATTATATATTGTTATGAAGC
ACTTTTACCAACGGTCAGTTTTACATTTTATAGCTGCGTGCGAAAGGCTTCCAGATGG
GAGACCCATCTCTCTTGTGCTCCAGACTTCATCACAGGCTGCTTTTTATCAAAAAGGGGG
AAAACCTCATGCCTTTCCTTTTTAAAAATGCTTTTTGTATTGTCCATACGCTCACTATA
CATCTGAGCTTTATAAGCGCCCGGGAGGAACAATGAGCTTGGTGGACACATTTCAATTGCA
GTGTTGCTCCATTCTAGCTTGGGAAGCTTCCGCTTAGAGGTCCTGGCGCTCGGCACAG
CTGCACGGGCTCTCCTGGGCTTATGGCCGGTCACAGCCTCAGTGGGACTCCCACAGNNGC
CCCTGTANCCCGGGGCAAGCAGGAACAGGGTCTTTCTGCATCTGTTTTCTGGAGGAACCTC
AAGGTTTGGGTTGCCAGAAAAAATGTGCTTNATTCCTCCCTNNGTT

Sequence 2673

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCCGGCCCGCCGGGCAGGTACTTTTTTT
TTTTTTTTTTTTTTTTTAGGNCGAATGCAGGGTTTTATTGAGTGGTGGAGGTGGTTCT
CTGAAGGATGGATGCAGAGCTGGAAGCGGGGATGGCACGGGAAGATAATCTTCTGCTGG
GTGGCCAAACCTNTCCGACCACCTCGGCTGAACTCCTCTCGGCGTTCAAATGTTCTCT
TCTCTCTTCTCTGCTGTATCGTTTACCATTCTCTGCTTGTCTGGGATGGTGAANACA
ACTGTTTGCTCATTTGCTTGGCGATAGGTGATTGTCTCGCCGCTCAGCTATAGGCGATGG
TCTACCACTCGGTGATAGGCGATTGTCCCATCTAGGTCGCCAAAAATGTGTCTGGAATTG
GTGGGTTCTTCGTCTCACTGACTTCAANA

Sequence 2674

CCGCGGTGGCGGCCGAGGTACAGGAGACTTTCTGATTTCCAATCTTGECTCAGGTCAGAA
GAAAAAGGGGAAAGGTTACATTCTGGAAAGAAAATACAGCCTATTTGAGGGCATGCCTG
ACTTTCAGTCCATGCACTAGTCCTCTTGGCTCGTAGAGTTTTAGTGCCCTGAAACCATG
ATCCCTCTGCCTCCATGGTCTCTGAGTGTAGTTATTATGTCTGCAAAACAGTAATGTCA
CAAGTCAAAGGGTCTGGGGCTTCCCAGGGAACCACTATGACTGAGTATATTCTGATTGA
GAAACCTGTGACAAGTCTTCTCAGCACTCGCCTTCTAATTTTTGGAGCCGATGCCTGGGT
TCCCAGCATCCAGGTCACAGTAGCTGGAAATCATGCAGGAAGGGCAAAAAGCCAGCAGCC
CAGAATGGACTGTCTCTGCAGCTCTGGCACATTCTCTACACATCGCCACACCACTCAAAT
GTCCTATAAAATATCAAAACCAATAACCTGGACATGACCCGATTAACTGTACCTGCCCG
GGCCGGCCCGCTCTAGAACTAGTGGGATCCCCCGGGGCTGCAGGAAATTCGATAT

Sequence 2675

CCGCGGTGGCGGCCGAGGTACTTCAGTTTCTCTAGATTACCATGTAAGACAGCTCTGTGG
ATCCTCTTCAGATGATACGGTTAATGGGGTATTGGGGAAATGCGAAGCCATCCGAGCAC
AAGCGCTCCATGAGGGTGGGCCACCTCTCCCGCTTGCCGTCTTCATAATCGTCGGCTGC
AAATTGTAGCCTGCAGCCGATTTTCACTCGCCTTCGGGGATCGCCGCTCCGAAGAGCA
ACAACGAGCAAAGCAGTCTGTCCACGGACCTCCGCACAGACTCTCAGCGCTCCCGCCTC

Table 1

TCAGCAGAAACGCCCAACAGAAGGGTTAGAACCAGCGAGCACGCGCACCTTAGCCGGCCC
TCCCCGCGTACCTGCCCCGGCGG

Sequence 2676

CCTGACGCTGGGAGGAGATGCTGCCACCTAGGTTACTNACTCGGTCCNNNTACGGCAACC
TCCTTTGCCAGGAACTATTTATAAACATCCTGCAGGAAAATGAGTCTTATATGTCAAAAT
ACACATTTCCACCTTTGCCANCNGTNNNAAAACNTAGGAAGGANGAAAAANCATTTA
AAAAATGACACNGGAATGTTAATGGAAGCAATGTGATGGTCGTTTTGGAGGTGGAACCT
TTCAANAAAGGTAATTAAATGCCCTTGGTTAAGAAGAAGGCCAAAAGAAGCTTGCGCACC
TTTTTTCCTGCCATGTGAGGAAGCCAAANAAGCCGGCTGTCTGCAACCTGCAAGAGGACC
CTCACTAGAAAGCTAGCCATACTGGCATCCTCATCTTGGCTTTCCAA

Sequence 2677

CCGCGGTGGCGGCCGAAGGTAATCGGGGGCCAGTCTTTATACTGCTGACAGTAATAAATT
CCTTCTTCCAGACTGCAGTCCACTGACGACGAGAGTGAACTCTGTCCAGACCCAGAG
CCAATGAATCTGGCTGGGACACCAGTGGCCCTGGTGGATGCAGCAAAGACGAGGAGCCTG
GGAGCCTGGCCAGACTTCTGGTGGTACCTGCCCCG

Sequence 2678

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACTTTTTT
TTCTAAGNCATTACTT
TTTATTTGAAGGATTTGNGAACTNTTCACATNATGGNGANAGTTGTNTGATTAAANAA
AAANCAGNTTTTTCATNAAATGCTTGGAGGNGAACNAGTTNTCACCCTGNGANANCCNAC
CNTCCCATTAACCTTNGAAGTTTNTNTTGATTAATANAAAAAAGGGGAGGNGAAAAA
AAGGNGAACATGCTAAAAACCTTNTGACAATCNTNCAAATGTCCCGCGTACCT

Sequence 2679

AGGTACTTAAGTGGGTTAGCCGAGGTCAGGAGGGTGGATGCCTTATTATGGGATTAGTG
CCCTTCTAAGAGGGACAGTAGAGGGCTTGTTTCATGCTCTCTCTCTCCATGCACAAGAAAG
AGCACACAGTGAGAAGGAAAGAGGCCCTCACCAGAACCTGACCATGCTGGCACCCTGATT
GCAGACTTCCAGCCTCCAGGATTGTGAGAAGATAAATATCTGTGGTTAAGTCACCAAGT
CTGTGGTGTGTTTTATGGCAGCACAAAGGTAACCCAGATGATGCTTTTACCACCTGGGTGG
TCCAGCCTTTCATGGAAGCTGTCAGCTCCTCAGCCTTGCAAAAAATGCTTGCTGGTCACT
CTCTTGGTCCCTTCAGATGCCTTCTTAGTGGTGCCTCTA

Sequence 2680

CCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCCATACAGTTTTTCTAAT
TTTCTAATTAAATGTAAGTATTGTGAATATTTCTCTTGGGAATGATTACTTTTCTTGG
AGTTTGATAGTGGTATAAACTGTTTATATTTGTATTCTATCAGGAAAGTATTACAGTAA
TGGAATAATTATAATTTCAATTGAGTGCGTCTCCTCTTTTAAATATGAATTTTGAGCAAGT
TTTTAGATTCATTTATATGAAGTGCCATTTTGTAGGTAAAAGTAGTTGAAAAAGGTAA
TGTAATGGTTCAACCTAATAACAGAAAATATCTAGCCTTAATTAGAAAAATAAGTCATAAA
GACAACTTTGTTTCAAATAAGGGGAAATACGATAGCAGTCATGAAAACTGAAGGATACA
AAGAGAATATTTAATTGGTAGCCATACAAAGTGGAGATATTTAGAACTATTTTCATTC
TCTAATATATTTGAGTCATTTTATTTTGGGTAAAATAAATTATAGGTGGAGCATGGTGGC
TCACGCTGGTTATCCCAAAGCGCTGGGATTATAGGCCGTGAGCCCGCCACTCCTGGCCGA
AATCTGTTTAAAGTATAGAACATCATGAAATTGGAT

Sequence 2681

CCCGGCCGGGCAGGTACCATGGTTGGAATGATAAANGATATTGTCATTTTGTAGCANT
GAAGTGAGTGGCATCTATGTATTTTAAAGGTATATAATGAAATTGTGCCTAGGGGAGTN
ATAATNCACTCTATGTA

Sequence 2682

CGCGGGATGGAAAGAAATGAAGACANTTTTAGACNTGCTAGACTNATGGTTGACTATACA
NCAACCATCTCAGAAAGAGTTATTCAGATATAGCTTCANACTGATANNTAAATCATATAA

Table 1

ANTAATGTGGTANTCAAAATANGAGTTANGTAACTACTGACANATATAAGGAAAGTCGTA
CCANTTCNGAACTAAAAACAATGGTCTATGTTGCTGGANGAACAAATGTGGGGAGGGT

Sequence 2683

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACGCGGGGAAATG
AAATTGGAGCTGGACCATTAGTCAGTTCATTAAAGCAAAAACCTCGGCCATTACCACCT
TGCTCCTAGGCTAGAATGTGCTGCTGCTGGTCTCAGAGCCTGAAGCTAAATGGGGAG
ACAGTAACTCCAAGACACATGCTGCTGAGGACATTGTGTACCT

Sequence 2684

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTCTCCACATCTTCA
CATTCTTTCTGAATAACAAGCCTAAGTCCCCATGACCTGATCACCTGTGAGGTGATCACC
TTGGCCATCACCTTGGCCTTTATTCACCTAGTGATGCTTCTCATAGTAATGGATTTGTTG
TCTCCANATGTATTTGAGTCACTGCATTTTGGAAATGGACTTTAAGATGTAAAGNGTAA
TTCTACCTGAGCAGAAGTGACAAGGGGCCCTTCCATNTGCACCCCCAGCC

Sequence 2685

CCGCGGTGGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTGGAGACAGGG
TCTTGCTTTGCTGCCCAGGCTAGAGTGCAGTGTGCAATCTCAGCTCACCGCAACCTNTG
CCTCCAGACTCAAACCATCCTACCCTTAATCTTCCAAGTAGCTGGGACTACGGGTGTGT
GCCATCATGTCCAGTTAATTTTAAATTTTGTANAGAACAAGGTCTNACTATGTTGCC
CAGGCTGGGTCTTAACTNCTGGGCTCAAGCAATNTGCCTGCCTCCTCTCCCAAATGC
TTGGGATTAGAGGCATGAGCCACAATACCTGGCCACTATGCAATTTGTATGTATTTTAA
ACGATAATTTTTTTTTTTTTTAAACAGAGTTTTGNTTNTCNCAGGCCCCANAAGNGC
AGNGGGCACAATCTCAGNTANACTGCAACTTCAAGCCTCCCAGGT

Sequence 2686

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGACGCGGGGAGCTACAACAGGC
AGGCAGGGGCGAGCAAGATGGTGTGAGACCCAGGTCTTCATTTCTCTGTGCTCTGGAT
CTCTGGTGCTACGGGGACATTGTGATGACCCAGTCTCCAGACTCCCTGGCTGTGTCTCT
GGGCGAGAGGGCCACCATCAACTGCAAGTCCAGCCAGAGTGTTTTTCCAAGTCCCAAC
TATAAGAACTTCTTAGCTTGGTACCTGCCCCGGGCGGC

Sequence 2687

CCGCGGTGGCGGCCGAGGTACTCGCGGCCCTTGAGGGGGGCCACCGACAGAGCTGACATC
ACCGTCATGATGCCTGCATTCCAGGAGTCACGGATGGGAAAGTAAATCTTTGGAGGGGCT
GGGAGCTGGGGTATCTGCAGGCCTGTCTGCTGACACACGTACTAGAATGTTGGCTATAAT
AGTTCTGTTCTTACAACACATGAAATTTTTCGTTTTATTTATTTGTTTTCATAGTGC
ATGTTCAATTTCTACTCACAACATGTTCTTGGTGTATTTCTTATGCAAACAATCTTCAGG
CAGCAAAGATGTCCGTTACATCTAACTTGAATAATAAGTTTTACCACCAGTTACACAT
NNAAAAAAAAAAAAANGTACCTGCCCC

Sequence 2688

AGGTACTTTGGCCTCTCTGGGATAGAAGTTATTCAGCAGGCACACAACAGAGGCAGTTCC
AGATTTCAACTGCTCATCAGATGGCGGGAAGATGAAGACAGATGGTGCANCCACAGTTCCG
TGTGATCTCCAGCCTGGTCCCCTGGCCAAAAGTCCGAGGGATACTGCTACTCTGTTGACA
GTAGTAAGTTTNCAAAATCTTTCAGGTTGCAGAACTGCTTGATGGNGAAGAAGTGAAATC
TGTCACAGATNCACTGCCACTTAAACCTTTGATGGGGACCCNACTTTTGCAAACCTGGGAT
TGCANCNTAAGAAATGAGGGAGTTAGGGGGGCCCTTCCCTGGTTTCTTGCTGATNCCAAT
TTTAAATAGATATTAATGGACTTGACTTGCCCC

Sequence 2689

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGTTGTATCNGG
ACTTATGGTGGCCACCAAATATGAAGTGAGTGTCTATGCTCTTAAGGACACTTNGACAAG
CACACCAGCTNATGGAGNTGNCNCCANTCTGGNNAANGCNGNCCACCAAGAAGGGCTNG
TGTGACAGATGCTACTGNNACCACCATACCATTAGNTGGAGAACCAACTGAGACCAT

Table 1

CACTGGCTTCCAAGANNGATCGCCGTTCCANCCAATGGCCATGACTGNCAATCCACAGAA
CCATCAAGCTCATATGTNCACCAAGCTACACCCATCATCAGGTTTACAACCAGGCACTGA
CTACAAGATCTACCTGTACCTGCCCG

Sequence 2690

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGGCACGGTACTTTTTT
TTTTTTTTTTTTTGGAGACAGAGTCTCACTCTGTAGCCCAAGCTGGAGTGTAGTGGCGTG
ATCTTGGCTCACTGCGACCTCCATCTACTGATTTCAAGTGATTCTCCTGTCTCAGCCTNT
CGAGTAGCTGGGATTACAGGCGTGTGCCACCATGCCTGGCTAATTTTTTGTATGTGTAG
TAAAGATGGGGTTAGCTGTTGTTTGATTTATATAGACCGTGACATGTCTTATGATATG
AGAATGGGCTGGAACTATAGCCTCGGGGTCTTGCCCTTTCTAAGGACTTACTGTTTAT
TGATCAAGTAAAAGTGAACAGGAGCATGTTTAAAATAATGTAGCCTCATTTTAAAAATT
TCTGCACTCTTACAAGTCAATAGATCATGG

Sequence 2691

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGCGAAGA
CAAATGATCCTTAAAGAAGGTGTGGGGTCTTTCCCAACCTGAGGATTTCTGAAAGGTTCA
CAGGTTCAATATTTAATGCTTCAGAAGCATGTGAGGTTCCCAACACTGTCAGCAAAAACC
TTAGGAGAAAACCTTAAAAATATATGAATACATGCGCAATACACAGCTACAGACACACATT
CTGTTGACAAAGGGAAAACCTTCAAAGCAATGTTTTTTTNCCTCCACNACCAACAGAA
ACATGCCANTTAACCTGCCCCGGGGCGGGCGGNTTCTAGAAACCTAAGTTGGATCCCCCG
GGCCTGCAAGGAATTCGATATCAAGCCTTATCGATACCCGTCNNACCTCGA

Sequence 2692

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGCTGGGTGCTGC
AGCACTGGAGTGCGAACTTGTGGCTGTGGTTATGAAGGAGCCTCGTCAGCTATGCCTTTA
ACCCCTGGTGAAGCAGTGCCAGTCACACTTTGCCAGTCAAACGGAGAGGCAGCAGTAGTA
AGACCAGACCAAATCAAACCAAACCAAGCAAACACGGGGAATGGAGACACAGAGTTTCA
TTCTGTCAACCAGGCTGGAGTGCAGATGCAGTGGCATGATGATAGTGCCTACAATTGG
AACTCCTGGGCTCAAGCCATCTTCCCTCCACTGCCTCCAAGTAGCTGGGGACTACAGGTC
ATGTGAGCACACAGCATAAAGGCAGNTGCCACAAGCCAGGAAGAGAAGCATCATCAGAA
ACCCGACCATACTGGCTTCCTGATCTCAGACTTTCAGCCTCCAGAATGGATTATTGCCT

Sequence 2693

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGAGAGAGACACACA
GATCTAAGTCGGGGGCCAGAGGGAGCTCCCTCAACTAGGCAGCACAGCCCTACTGATCAG
CGCATGTGTGAAGGAACCACTCAGGCCAGAGAAAAGAGCCATGTGAGAAGATTAGAAGG
AACAGTGGTGCTGACACAGGACCTAGGGTAGGGCCTGTTCCACCACCCTAGCTGGAAAA
CCTCATGATTTATGGGGCACTGGGTAAAGAACACAAGTGAGAAACCCTAGATGGGCACTG
CCACCTGACACAGCTATACAGCAGGACCTGAAAGGATCACACTTGCATCCTAGGACAAAG
CTCAAAAGTACCTTGCCCGGGCGGCTCGCTCTAANAACCTAGTGGGATCCCCCGGGGCTGC
ANGAAATTCGATATCAAGC

Sequence 2694

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGCCGGGAGGTTTCATGACTCACCACA
GGGGCACCCAGCAAATTGGCATCCGAGCCAAAATGAGAGTGCAAGCTTTGAGTTTCAA
TGTAAGCTCATCAAACCTTTGACATTACTCTTTTTTATATAAGGGGCTTTTTTTTTTT
TTTTTGCATAAAAAATTTAAAAAANCAAATNAAAAAAATTCAAATNANTTNNCNTGA
NCTNNTGNCCATANAACNTTGCNTGTNCTGNCCCNAGGNAANNTGGAANNTTGCNANGG
TNTNGCNCTCNACCCTGGGTAACNANCAAANNTTTNTTCAAAAAAAAAAAAAAAAAAAAA

Sequence 2695

CCGCGGTGGCGGCCGCCCGGGCAGGTACATACCCCCACACCAGGCTAATTTTTCTATTT
GTAGAAACACGGAGTCTTCTATGTNGCCAGGCTGGTCTCGAACTCCTGGGCTCAAGCA
GNNNGCCCACTCACCTCCCAAAGTGCTGGGATTATAGGCATAAGCCACCACGCCTGGC

Table 1

CAATTTCTGTAAATTTTACCTTCATTATTCTCTAATTCTAGCCTGCTTCATTTCTGTCA
GCGGNACTAGTCACTGTTTTCTACATTGTCCATCGGGAATGTATGCCCCATTAGGATGGG
GACTTTGCCTATTTTGTACCATTATAGNATCATTANTTGAAATAGTGCCTGGNCGTGT
TTCCAAAAAGTACATTATACTATTCTCTTNAATAAAAAACACAGTAAANAAATTTGT
CTTCAA

Sequence 2696

CCGCGGTGGCGCGCGGANGTACACCAAGCACCTATTTTTATACTTAGCTNCCCATGGNGA
GATAATGGCTTGCCTGCATNTTATGTATCCATAACATACATAACAAGGCTCGGNCTTNC
ATGGGATAACANTTCACAACTCTTCGATTTGAANTGTAATGAATCTGGCGACAAGGATTT
TTCTCTAATGGATNCCAAAGTTAGCCAGAACTTTAATGTNAAGATGAAAAAGGGTGTA
GGTGTTATATNTCTTCAATNCCTTTACCACAGGAGGCTAACTCCACAATTTCCCTCATG
TTTCTCATTGAGAAAAAATAATTAATTTTTGTGTNTCCGAATTTATTTNTGAT
GAATNGCTTTCTATGNTGCCTGATNGTTTTNNANNTTNTTGNAAANTNTAAANTTTG
GGNTTCTTAAANAAANTTTTCTAANNGTTTANGGGGNTNATTTNAACNTTACNGGGG
TTTGGTTATTAACAAATTTNTTTTTNTTGGG

Sequence 2697

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACACCCTAGCTCC
AGCTTCCCCTGGGAGACTGTGCATCTCCTGGCTCCACTAACACCACCTTCTTCTGACCTT
CCAGCCTAGAGATGATGACTCTGCCAGCCTAGATGGGCTCTGGGTGTCTCCCTATTCTT
GTTTGTCTTTGTAGATTTCCCATATGCTGTCAACCACTCCCAGCCTAAGCCCTCTCTAT
TTTAAATCTCAAGTGGATTATGTTCTGATTAGTCCCTGACTGATATACCACTCTCCTC
ATGATCTCTGATTAGTTTCTGTTAGGTTGTTGCAGTAAAAAAAAAAAAAAGTACC
TCGGCCGCTCTAGAAGTGGGATCCCCGGGCTGCAG

Sequence 2698

CCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAGAACTTGTGT
GCTTAGACCTGACGCTGGGAGGAGATGCTGCCACCTAGGTTACTTGTAGGACCCTATACG
GCAACCTCCTTTGCCAGGAAGTATTTATAACATCCTGCAGGAAATGAGTCAAGGAAGC
TTTTCTTTTGTAGCTATTTACAGCTTTTAGCAATTGAGTAAAGTATACTCCTGTGAACAAA
ATTTGGAACATACTTGTCTCTCTAACTGATTTCTCCAGAATTTGGAAGTACTGTAGC
TGAGACCAATGATGCTGACCTCCCTCAAAGCTGCATTTCTGAATTTCTGAAGGCAAACT
GTCTGCCTATATTGTACAGCAAAATAATTTCTGTATTAACCGTTTTATTGCTCAAA
AAAAAAAAAAAAAGTACCTGCC

Sequence 2699

CCGCGGTGGCGCGCGGGGGCCATTGAGACTGCCATGGAAGACTTGAAAGGTCACGTAGCT
GAGACTTCTGGAGAGACCATTCAAGGCTTCTGGCTCTTGACAAAGATAGACCACTGGAAC
AATGAGAAGGAGAGAATTCTACTGGTCACAGACAAGACTCTCTTGATCTGCAAATACGAC
TTCATCATGCTGAGTTGTGTGCAGCTGCAGCGGATTCCTCTGAGCGCTGTCTATCGCATC
TGCTGGGCAAGTTCACCTTCCCTGGGATGTCCCTGGACAAGAGACAAGGAGAGGGCCTT
AGGATCTACTGGGGGAGTCCGGAGGAGCAGTCTCTTCTGTCCCGCTGGAACCCATGGTCC
ACTGAAGTTCCTTATGCTACTTTCACTGAGCATCCTATGAAATACACCAGTGAGAAATC
CTTGAAATTTGCAAGTTGTCTGGGT

Sequence 2700

CGGNGGCGGCGGAGGTACGCGGGGAGTCTTGGTTTTCTGCTAGTGCTGCTGCTGCTGGGA
GGACGACGGACGGCAGCGGCCAAGCAAGAAGAAAGACGTGGCAGCAAGCGGGAGTCGGGG
ATAGTGTATCGGTTCCGTAAAGTTTCTGTTCTCTGATTTGGGGGATTNTTNCCTGCCC
AAAAANANNNAAAAAAAAAANTTGTCTGCCCC

Sequence 2701

CCGGGCAGGTACACATGCTAGGGTCCAGGACAGCAGGACCAAGCCAGCAGAAACAGCCTG
AGCCACCGCAGACTGGCCTGGCTATACTGGACAATGCCACTCCTCCTGTACCT

Table 1

Sequence 2702

CTATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAAG
ATGTGCGGGAGGCATATCGCCGTAGAGGCTGGGCCTTCAAGAAC

Sequence 2703

CTATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGGGGATGGCAACA
GATGGTGCCTGCCGGGGACCGCTTAGCAGCAGCACTCTTGAGAAACCAGGAAAAGAGCC
CCGCGTACCT

Sequence 2704

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCATTCTTTT
CTTATAAGTAAGTTGTCCATAAGTGAACACTTNAAGCAACAATTCNTCCCTGGATT
CAAGGAANAATCCTATGCATAATCATTACATGCATNATGACCCANATTNTTACTGGGTN
GTTTAAAAGGGTGAANCAGNGGTCCCTTGAGTGTCAAACCCANTTCCCAAGGAGCACA
NATNCNCCTGAATCCCATNTTGGGTTGCAAGCCCTGTTGAGTAAAAAANAACCTTNTGG
TTNCAACATTCATCCTTTTATGATAATTGCCAAAAATTTTAAACAAACATTAATATAA
TGCNNAACATCCAGTACCTGCCCGGGCGGCCGNTNTTAAACTAGGTGGGATCCCCGG
GGCT

Sequence 2705

AGGTACTTTNTTTTTTTTTTTTTTTTTTCAATNTTATTTTGGTTTTCTNACAAAGGTT
GACAGTTTTCCATAACAGGTTGTAAGAGTNTTGAAAAAANTTCAAATTTTGGGGGAG
CGGG

Sequence 2706

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTGNNTNACATTTGGGG
GTAAAGTGCAAGTTTGTTAAAAAGATATTGNGGAATGTTAAGGCTGGAGTACAAACAAAT
CCATCATCCAGGTAGTGAGCATAGCACACAATTGGTAGTTTTCAACCTTTTTCTCTC
CCTCCCTTCTCATGTTCCCAAGTGTCTATTGTTCCCATCTATATGTACATGCATACTCAA
TGTTTAGTTCACCTTATAAGTGAGAACATGTGGTATTTAGTTTTATTCTTTTTTATACT
CAGTCCANATTTGNGGCTCACAGGCTGGGTANATAAANACTTTTGTGTCCAAATTTCCAA
CCAGTAGCTGCTATACACACATATCTGGGCCTGCCGATTTTCCCAT

Sequence 2707

GGAGCTCCCCGCGGTGGCGGCCGGGGGCCATTGAGACTGCCATGGAAGACTTGAAAGGTC
ACGTAGCTGAGACTTCTGGAGAGACCATTCAAGGCTTCTGGCTCTTGACAAAGATAGACC
ACTGGAACAATGAGAAGGAGAGAATTCTACTGGTCACAGACAAGACTCTCTTGATCTGCA
AATACGACTTCATCATGCTGAGTTGTGTGCAGCTGCAGCGGATTCCTCTGAGCGCTGTCT
ATCGCATCTGCCTGGGCAAGTTCACCTTCCCTGGGATGTCCCTGGACAANAGACAAGGAG
AGGGCCTTAGGATCTACTGGGGGAGTCCGGAGGAGCAGTCTCTTCTGTCCCGCTGGAACC
CATGGTCCACTGAAGTTCCTTATGCTACTTTCACTGAGCATCCTATGAAATNCACCAAGT
AGAAATTCCTT

Sequence 2708

TGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACGCGGGATTACTCAAAAAGAATCA
GTCCTGAAAGGGTGGGCAAATGTGCAGCTCTCCCTCAGGGTCGTGCGATCTGGGTCCAAC
AGTCTGGCCTTTCAGCCTTCAGGCTGTTTTAGGCTTGAAGTTTCGTGTGGCTGATCAAAG
AAAGAAGGCATACGCAGATTTCTACAGAACTACGATGTCATGAAAGATTTTGAGGAGAT
GAGGAAGGCTGGTATCTTTCAGAGTGTAAAGTAATCTTGGAATATAAAGATTTCTTCAG
GTTGAATTACCTAGAAGTTTGTCACTGACTTGTGTTCCCTGAACATGACACATGAATATG
TGGGCTAAGAAATAGTTCCTCTTGATAAATAACAATTAACCAATACCTTG

Sequence 2709

CCACGGCTCATAGCCTGTGGGTTGGTGCTGATCGGCATGTTCTGTGATGAACTCTAACCG
TCGGACAAAATAAAAAAGGAATGGGTTATGACAGTCGCTTCTGGTGTGTGTTGATCGC
TATTTTTCTGCCGTATCTGTGCACGGCGTGGCCAAGTTCAGCGGTGGCAAGTTCGGGCC

Table 1

CCGGCAGAACCATGACCCCCGAGCTTTCCTGGAAACCCTCGAGGGGTTCCGCAAGCGTGC
CCACAGTGC GCAACTCAACAGCTTTGAAGTGACCCCGGCCTTCGCGGCGGCGGTGATCAT
TGCCCATTTGGCCGGCGCTGCGTGCCTGGTGACGATCAACGTATTGGCGGTGCTGTTAT
TACCAGCCGGCTGCTTTACATCATCTGCTACCTGGCGGACTGGGCGATTCTGCGGTGCGT
GGTATGGGCGGTGGGG

Sequence 2710

AGATACCACTATGCCTGGCTAATATTTTTATTTTTATTTTTGTAGAGACAGGCTCTTG
TTATGTTGCCCAGGCTGTTCTCAAACCTCTATCCTCAAGCCATCCTCCCATCTCAGCCAC
TCAACTTGCTGGAATTACCAGCGGAAGCCACTGTGCCCAGCCCAGACTCCCTTTTACCTA
GTATATCATGTCTAATTTCTAACAAAAAATTAACAAAAACATTGTAAGAGGAAAAAAGAA
ACCCTAAACAAACAAGCAAAACAAAAACCCAAAAACAACAAAAAGTTTCAAGAAACAGAG
CTAGCTGACAGAACTATATTAGATATGGCAGGTATATTAGAATTATCAGATTGGTAATT
TTAAACAACTATGACTAATATGGTAAGAGTGATAATGGAAAAATAGACAATTTGCAAGA
AC

Sequence 2711

GCGAATNGGAGCTNCACCGNGGGGGNGCCGGGCAGGTACCCATNTAAACCCCAAACCTCG
GGCTCCAGAAGCAGATGAGCAGATGAGGAGACGCCTCTATTCCGTGTCGNTAGAATGAG
CAAACAGTTGTCTTACCATCCCAGACAAGCAGATGAATGGTGAACGATNCATCATGAT
AAAGAGAGAGATGAGGNCAATTTGAACGCCNAGAGGAGTTCAGTCGAGGGTGGTCCGAGAG
GTTTGGCCACCCAGCAGGAAGATTATCTTCCCGTGCCATCCCCGCTTNCAGCTCTGCATC
CATCCTTCAGAGAACCACCTCCACCACTCAATAAAACCCTGCATTCAACCTGCNAAAAAA
AAAAANAAAAAAAAGTACCTN

Sequence 2712

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTGGTCTTATAATTTGTTTGACACCTCAAA
CCTCTTATTTTCATTTAGAGACTGATTAAATACAGTCTCAAGGTGATAAAATAACACAG
TAGGATAAAAATAAAGTGACAAGTGGAAGGGATGGTTAGTCATCTTTGATACCTGTGGA
TACTCAAACCCACCATTTAAATGTCTTAGGTGTTAGATGTGGTAGGTGTTTCTATCAGG
AACACGTGGGAATAAAACAAATTTAGAACTCACATCTGGGCTTCTCACTTCTAAACAA
GGGTCAGGAGGCCAGAAGGCGGAGCAGCGCATCAGTTAGGATTTGACAGGACC

Sequence 2713

AGGTACTTTTTTTTTTTTTTTTTTTTTTGGGCAGCTAAATCTAGGATGGNGTTAAGTT
TCTTCATTTTGTCAATTATATATAAAAAATTAGAAACAACACCGAATCTGCATTTCTTGG
ATGAGATAGTTAATAACAACTATTTCTCAATATTTGTATACTAAAACTAGTGAAGGTG
TTATGTGTTTCANTATCTTATCTTATTTGAACATGGGTTTCTGAAAGGAGCCTATATA
ATAATATAAATGGTATGTAGTAAATGAGGCACTGTCTTGGCTGGGACTGCTATAAAAAA
TTACCATAGACCATTGACTAAACCACAAACATATACTTCTCACA

Sequence 2714

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTNCTGCCTGGGTTA
TGGGANTNAAATNTTGNCCAGGGACATCCNAGGGAAGGGGAACCTNCCNAGGCAGATGCG
ATAGACAGCGCTCATAGGAATCCGCTGCAGNTGNACACAACCTCAGCATGATGAATTNNTA
TNTGCAGGATCAAGANAGTCTTGTCTGTGACCACNNGAATTCTCTCCTTCTNATTGCTCC
AGTGGTCTATCTTTGTCAAGAGCCAGAA

Sequence 2715

GGCGAATTGGAGCTCTCCGCGGTGGCGGCCGCCGGGCAGGTACGCGGGGAGTCCTGAAA
GGGTGGGCAAATGTGCANCTCTCCCTCAGGGTCTGTTGGATCTGGGTCCAACAGTCTGGCC
TTTCAGCCTTCAGGCTGTTTTAGGCTTGAAGGTGGGTTTTTGTAGGACCCCTGGCTGTC
TCTCTGTCAGATGGATGACTAAGTGAGTTTCGTGTGGCTGATCAAAGGAAGAAGGCATAC
GCAGATTTCTACAGAACTACGATGTCTGAAAGATTTTGAAGAGATGAGGAAGGCTGGT
ATCTTTAGAGTGTAAGTAATCTTGAATATAAGAATTTCTTCAGGTTGAATTACCTA

Table 1

GAAGTTTGTCAGTACTGCTTGTGTTCCCTGAACTATGACACATGAATATGTGGGCTAAGAAAT
AGTTCCTCTTGATAAATAACAATTAACAAAAA

Sequence 2716

CCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTAATGNGCANAG
GGATTGACCTGTGCATGCTTTTGATCTCTCATTCAAAGGATCAATATTAAATAAAATTGT
CATGAGCTGTGTTGAANACAGGGCGCTTTCAAATAGAGGTAATTTGCTCTTGTTGTAA
GAGGAACATGTCAACAAAGATAGGAAATGAGGGTGATCGTGCANATGGCTTGATCTTAT
ATATGCAAAGGAGTTCCCGCGTACTTCTGTCTCCAGTTTTCCACTTCAAACCTCTATCT
TCTCCAAATTGTTTCATCCTACCACTCCCAATCAATCTTCCATTTTCGTCTGCGTTTAN
TAAATGCGTTAACTAGGCTTTAAATGACGCAATCTCCCTGCGTCATGGATTCAAGGGC
TTTTAA

Sequence 2717

GCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTT
GAGTTCCAGGATACAGGTGCANAGTGTGGAGGTTTGTTACATAAGTAGATGTGTGCCATG
GTCGTTTGTTGCACCTATCAACCCATTATCTAGGTTTTAAGCCCCATATATGTTAGCTAT
TTGTCTAATGCCTTCTTTCCCTCACCCACCAACCGCCCTCAAGTCAGTTTTNTAANAG
TATTAATCAAGAAACCATNTNATAATCACACCAAGCATATTTNTACNCAAGATNTAAAA
TNCTAGGATATTTGCTAAANATA

Sequence 2718

CCGCGGTGGCGGCTCCTATGGATGCTTTAAGGCAGTGTTTCTCAACCAGAGACAAGCTTG
CCACCCACTGAATATTTGTCAGTGTCCAAAAATGTTTTGGTTGTCATGACTGGAGGTGG
GAGGAGTGTGCTATTGACATCTAGTGGCTAGAGGGCAGGTATGCTGCTAAATATCCTAAC
ACACAGGACGGCCCTCTGCAACAAAGAACTACCTGACCCAAAATGTCAGTTGTGCCAAG
GTTGAGACACCCCTGCTGTAGGGGATAGAAAGAAGTGAAGAAATGGTTTCAAACCTCAAGA
ACAATGATTAGAGAGATGGATGGATGGATAGATAGGTACCTGCCCC

Sequence 2719

AGGTACTGATTTCCAAAAGTAAGTTTCTATTCCCTAGAACTAAAACAGAAAAGAAGTGT
GTGAGATACATAAATGAAGCCAATAAATTTAACCAAGGGCTTACCATTTTCTGCAGGAT
GTT

Sequence 2720

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCACCATCAG
CACTGCTGATTTTCAGTTTTGCTATCTATTCCAGGTTTGCTTACTCCCCAAAAAACTA
ACTAGAGAGCACAACCTGAAAAAATATATAATCTTTGGAACTGTCCCTGATTTTTATG
CAAATGATATGCTTCAACAGCATTTCAGATCCATCCATGTTGAAACCTGTCCGTTCTTCA
TGCGTTGCTCAAGTTGGTGATGCTCTGAGGGTGATGCTGTTGCCATAGCTGTTTCTGTTG
GACCGCAAGCTGTTGAGACTGGTCTGAAGTTGATAGGAGATTTACAAGAGGGGACACACA
ATTTGCCGGAATGATCAAACCTACAATCCGTTGCCCATCTTCCGTTCTTAGCCGCACGAT
CTGCATCTTCACGTTTGTGCCACTGACAGATGCTAGAACACCCTCAAC

Sequence 2721

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATAAAAGTTTAAATCCTAA
TGTATTAAGAAAGTTTAAATAGCACTATAATTTCAGAACTTTATATCATGCTTATCATACC
ATCCCATAGTATGGGAATCTTTCCATTTCAAGTAAATGTAGATCCACAGTAATATTTTAA
GGGCTATGCATTCCATTGTCTAGATGAACACAGTTCATTGAAACAACCTGTCGATGATG
AACGCTGAAGTTGATCGAGCGGCCGCCGGGCAGGTACTGCGGCGGGTAGGCCTAGGATT
GTGGGGGCAATGAATGAAGCGAACAGATTTTCGTTCAATTTGGTTCTCAGGGTTTGTAT
AATTTTTTATTTTATGGGCTTTGGTGAGGG

Sequence 2722

CTATANGGCGAATATGNAGCTCCACCGCCGTGGCGGCCGCCCGGGCACGGTACTCTGTTT
TTTCAAACNTTTNTATTACNTTTTATACTNNNTTTATTTNTNATTTNNTNAAAAACA

Table 1

TTTTTATGTTTTNCATATCCTTGACTTTNAACACATGTTGCTCANATGNNTTCTTGGA
AGCCAAAGCATTGANGTTCACTTGGTTACCAAAGGCCGACCCCAAACACATATACATN
CAGNATAATCCTCCCTTGGGTTTTGCGATCCTTGCCAATGTATANCAAGTCCCGGATCT
CATNAATGCCCNCGTACCTGCCCG

Sequence 2723

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATCATATTTGCTTGTGGC
TTTATGATAACTTAGAAATAATATTCTGGATTAACTGTGTGACTCATGAGAGAGTTTGTG
CAACTATGTTTCCAAATTTACTTGATTTTCAAGACTTACACTAGAACTGTGCGAACAAGG
TAATAAGTAAAGCATATGTATTAATAACAACCTTTGGTCAACTCTTGGGTAGCCCCAGTGT
TGGCCTCCCGCTTTGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCGCAGCCAG
CCAACATAGAGATAATCTTAAAGACTCCTAANAAAAAAAAAAAAAAAAAANGTACCTGC
CCG

Sequence 2724

NCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTACTTTTTACTGCATC
CTGCAACAAATATCACTGAAATGATTCATTTCTGGAAGCATTCTACTGGAGCATCCCGTG
GCCTGGAACAGAGCTCTGGGGACTGGCATCCTTCCACTGACTTTGATGCTGATGACAGCC
CTGATCGTGTGATTGAGCTGGCCTTAACCCGACCCACGTGCACGTATTCCTCAGCACATC
TGGAGCTGAAGTCGAGAGCCTCTGTGGGAACGCTTGGCAGCCCATGCTGTTCTAAGGCTG
GAGCAGGATAGACTGCTTTCATCTCTGATGTTAGAAAGCAGACCTGTTTCAGGGTTTGGG
GAAGGTTGTTGATATGAACTGGGTCTCTCTAATTATTTTACTGTATGTGTGACTTCT
TCCTAGAAAGAATGGAAGAATGTTTATGTTAGAACATTTTATCTATTC

Sequence 2725

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGCCGAGGTACTTTTTTTTTTT
TT
TT
CNACCNNTTANTNTNGAAAAANNNNNGGAAAAAAATCNTTTTNNCNAANCNNGGTTNG
NTTTTTTANNGGGGGGGAAAAAAANAAAAAAGGGGNNATTTTAGNNATTNNGTCCC
CNAANTTANNCGNNGGGGNNNGGNAANCCCCCGGNCNTTAANNAAAANNGGGGAAAAANTTT
NTNTTNNNGGNGNGGNNACCCCCCNCNTNNTNGTNTTCTNNAAAANNNNGGNGGAGA
ATNANCNGNTCTTCANANCANGAAAAAACNCNTCNCNNCCCCNCNTNGAACTTGGGTAA
GNNTAAAAAANAAGGGNCCCCCNGGGGNGAGGAATTCANTTNTAGGNTTTTTNNACCCC
CCAANCAGGGGGGGG

Sequence 2726

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTT
TTTTTGGGGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCNGGGGGGANCATGG
GACCTTTNTCGTTAAACATCAGGCTCCAAATNTGGACTTTNANCAAAANCCNTTGCCG
GGAACA

Sequence 2727

TTTTTTTTTTTTTTTTTTTTTCCGAAAGGAANCAAAACCTGGNNGGTTAATTAATCCT
TNTTATGCTGGGCAGCANTAATAGGATCAAGANAAGCCTTTCTCCTCCTGTGCTCCC
AAGGATGCCCANCGGGANACTGTGAGGANATGGAACACAGCCTTCACTNTGTTAATTGTT
CAANAGCAAATCACCTGCCGTGAGGACCATGACANTCCTGGGGGCCATTTGTANAATATT
CATCCCCANACTNTGAAGTGAAGTCTGAGTAANAATTTGCTGGGTGAAAAAA
GGGTAACGTTNTTTCAAAANGGAGAAACCAGCTTAAACAAGGGTCCCGGGGGGCAGAACA
TCATGATAGGAGTAGGAATGCAGGTGAGGTTTTGTTTTCTGCAAAATATTGGGTACCTG
CCCGGGCGGCCGTTNTANAAGTGGG

Sequence 2728

CCGCGGTGGCGGCCGAGGACGCGGGTATGCATGCATTTTCTCTGAGTTATATTTAAAT
CTATACATTTCTCCTAAATATGGAGGAAATCACTGGCATCAAATGCCAGTCTCAGACGGA

Table 1

AGACCTAAAGCCCATTTCTGGCCTGGAGCTACTTGGCTTTGTGACCTATGGTGAGGCATA
 AGTGCTCTGAGTTTGTGTTGCCTCTTTGTAAAATGAGGGTTTGACTTAATCAGTGATTT
 TCATAGCTTAAAAATTTTTTTGAAGAACAGAACTTTTTTAAAAACAGTTAGATGCAACCA
 TATTATATAAAACAGAACAGATACAAGTAGAGCTAACTTGCTTAAAAAAAGGATGGAGGC
 TCTGAAGCTGTGACTTCATTATCCCTTAATACTGCTATGTCCTCTGTAGTACCTTAGATT
 TCTATGGGACATCGTTTAAAACTATTGTTTATGCGAGAGCCTTGCTAATTTCTAAAAA
 TTGNGGATACATTTTTCTCCCATGTATAATTTCTCACCTT

Sequence 2729

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACCCAAAAGTGGGTCTTG
 AAATATAATTGTTTCTGAGAGGAACCTTATTCTCAGGATATTTTTGTAAAGAGGGACAAAAC
 TACTTAACAGTGTGTATCCTTGCAATAAGTATATTAATGAATACGATACAACCATTTTTAT
 ACAGGCAAAAGATGGTTTAAATGCCAAAGCACAACTCATAAACCCAGTTGATGAGGAGCC
 AGAACAAATGGTCATTACTGTATAGAGATGTTTTAAAAAGTCACCATATAAGCTTTGAAAT
 AATTCTAATGAAAATTATATGACCTTGAGGCTGGGCGCGGTGGCTCATGCCTGTAATCCC
 AGCACTTTGGGGAAGGCCNAGGTGGGTGGATCACAAGGTCAGGAGATCGAGACCATCCTG
 GCCAACATGGTGAAACCCTGTCACTACTAAAAATACAAAAAATTAGCCCGGGCATGATGGT
 GCATGCCTGTAGTCCCAGCTACTTGGGAGGCTGAGGTGGGCGGGTCGCTTGAACCTCAGA
 GGCAGAGGTTGCAATGGGCCAAGACGGTGCCACTGCACTCCAACCTGGGGGACAGAGCAA
 GACTCTTGTAAAAAAAAAAAAAA

Sequence 2730

AGGTACTGTCATGCAAGGATGGGAACACATTCTGGGAAATGTGTCGTTAGGCAATTTTGT
 TGTGAGAACATTATGGAGTGCATTTACATGGACCCANATAGTANAGCCTACTACATACCT
 AGGCTGTATGGCATANCCTGTTGCTCCCAGGATACAAACCTGCNTAGCATGTTACTATAC
 TGAGTACTCTTTGGAAGCAGCTGGACTTGGCTTGATCGTANGANAATNCGGNGTCCAGNT
 CNCTGGGCANACTTCTCCATGTGTTNCTACATACTGGAACGCCTTNACCAAGCGGAGGGN
 NTNTTNCACGCTTCAGGCCCACTGGGAGATCGTTGACGCTTNAATGCTTGATGACTCCA
 TTGGGGTCAA

Sequence 2731

NCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTT
 TTTTTTTTTTTTTTTTTTTTTTTTTTTGGGGAACCATNTTNAATTTATTGACATTGNC
 AATTNATNAACAAAACAGGATTTTTTTTTTCC

Sequence 2732

ACTNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGNCNNGGACCTTNGCNNTCNAAA
 ANACCANCTNTGACACAGACTAAAAGCATCACCTGCTCAACTCTCAATATTGCTTTATCA
 GCATCTTTTCTCTGTAGCTCCAGGGGAATCTTTTCTCTAAACATTTATGCCCTTGCTTT
 GGCTAGAAACACATTAACCTGGTTTACTCATTGAGAATCCAGCATATTTAAGAGGTGACCC
 TGTGTTTTTTGTGATATTGAGGCATTCATACAGAGCTGCAGTTAGACGGGGTTACGGGGG
 CTAAGAGCAGAAAAAAATTCCATTTTCATCGGGATGGAAGTGAAGGATTTTATTCTATAA
 AGCGGCCCTGGTTGAATCTGGCAATCTTTTTGCCAAGATCCCTAGCAGAAGATTTAGCC
 CATGTCCTTCCC

Sequence 2733

TACTTAGGGCGAATTGGAGCTCCCCGCGGGGGCGGCCGAGGTNCAAGNANTTNAAATTC
 TTTAGNCCNCTCAAATTCCTTGCTTCTAACTTATGGCTCTTCATTTTCTCCTTTTTACGGG
 GCTGACGCACCCANTCCTTAGGGGTCTTTTCTGTTTCTAAGACATGATGTTTTTGTGTTG
 TTGNCCACCTTAGGAGCTTACTTTTTGGTTTACAGTCTGAATTATNTACAATGTCCACAA
 TTCCATGGTCCCCTTTNAATGGATATGCTATTANACACAAGTTCCTGNCTTCATCTNTT
 CAAAGCGCACAGATACCACACCTTTGNACCGGCCCGGGCGGNCGCTCGGN

Sequence 2734

CGCGGTGGGCGGCCAAGGTCCCNNGNNAATNAGGAGGANCCCCGAAGGATGGGNTGCA

NTTNGGGAGGAGGGTTTCAAAGGAAAAAGGTCGGAAAGCAAAGGCCTGAAAAGCCAGAGG
CAGGTGGAGAGAGGGTGGAAAGTGAGCAGCGGCCTGGGCTGGAGCCGCACACGCTCTCC
TCCCATGTTTAAATAGCACCTTTAGAAAAAATTACAAGTCCCCATCCACAAAAA
AAAAAAGAAAGTACCTGCCGGGNCGGCCCGCTNTAGAACTAGGTGGATCCCCGGG
NNTGCAGGGAATTTCGATTATCAAGNNTTATTCGATACCGTCGACCTCGAGGGGGGGC
CCCGGGTACCCAGCTTTTGTTCCTTTAGTGAAGGGTTAATTGNCNCNCTTGGGCG
TAAAT

Sequence 27/35
TGGCGGCCGAGGTACGCGGGGGGCACGTGGGAAGCTCGCANCAGCTGGGGAGGAGCCAAAN
CCTCGGCGCTCACCTAAGCCGCGAGGGAGATACACCCAAGTGGGAGATGAGGAAACAGCAA
CCCAGANAGGAGAACTAACCCACACAGGATCATTTNGCGAANGANCAAANGNTTAAATAA
CCAATACCTGNACTTTTTTTAGGACAAACTTANTGCANNTTTGAAGGANGCCAACCATG
GATTTGAGCGCTGTGAAGGAATATTTCTCCTGGCTCTACTATCAATACCAAATCATTANC
TTGCTGTGCTGNTTTAGAGCCCTGGGGGGCCGATCTATGCTTTAACACCATCTTACTAACC
ATTATTGCTATGGTGGTATACACTGCCTATGTTCTTTATCCAAATCCACATTCCCCTGG
CTTGGGAAATTT

Sequence 2736
CCGGGCAGGTACTGAGTCAAGGACGCTCTTAACGTCATGGACGGCTCCTTTACCCACGCT
TTCTAGATCTTCGACTGCATCTTTTCTAGTTTTCCGAGTCCCCCACAGCTTTTTTTGC
TCCGTCTAGGCCCTTTTTCCAGAAGGCTGGATCTCTGCTTCCTTGGCTTTTGGTGCCTGTC
TTGGCTAACCCCTGGGGTCTTTCACCTGGCATTTCCTTTTGAGCTTGCTGATGCTTCATGG
CAAGGGTTCCCCGATCCTGGGGCAGAGGCGGCCCTCTGGATCATAANGCACAAGACCANG
GCTCCTGCCAGAGCTGTCAGGAAGAGGAGAGTCATTGAACCTNATGCTTCTGTGTTGCTT
GGAGTGGGTATTGCCACCCAAATCCTTGGAAGATCTTGGGAATCTAGGGTCCCCGCCG
TACC

[illegible]

Sequence 2738
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACGCGGGCAGAG
TGCCCGCTTAACACAAAGCACCAACTTACACTTAGGAGATTCAACTTAACCTTGACCGCT
CTGAGCTAAACCTAGCCCCAAACCACTCCACCTTACTACCAGACAACCTTAGCCAAACC
ATTTACCCAAAATAAAGTATAGACCAATNGAAAATTGAAACCTGGGCGCAATAGNATAT
AGTACCTCGGCCCGNTTCTAGAACTAGT

Sequence 2739
TGGGAGCTCCACCGNGGNGGCGCCGAGGTNCTGGGGATNTTTTAAAATATTCACAGTTN
ACAAATGATCATGCTTGTTCTANAGANTTGNGGGCCANACACTTAAGTGAAAGCAGAAGT
GTTTGGGTGACTTTCCTACTTAAAATTTTG

Sequence 2740
AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGNCAGGTACTTTTTTTTTTTTTT
TTTTTTTTTTTTTTNGAAAAAGTCATGGAGGCCATGGGGTTGGNTTNAACCAACTTTGGG
GGGTTCCGATTCNTTC

Sequence 2741
CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTNAANATGCTTTCAGTTTAATA

Table 1

GCTGTTTNAATTTTTTTTTTTTTTTTTTTNAGGNTTATAGGCTGAAAACNNAAGCCT
GCTGCTCCTGGGTATCATTCTNAACTTCTCCTTACAGCTATNAGTACTGANNTCAAGGG
ACCGTTTTTAACCGTCATGGGACGGNTNCTTTACCCACNCTTTNTAANATNTTNGANTGC
ATCTTTTCTANTTTTCCGAGTCCCCCANAGCTTTTTTGCNCCGNTAGGCCTTTTTC
CAAAAGGNTGGAANCTNTGCTTCCTT

Sequence 2742

CGTGGTCGCGGCCGAGGTACATTTCTTGTAGACTCTGTAAATTCCTGCAGCTCCTGGT
TGGTTCTGGAGCAGATGATCTCAATGAGAGAGTCTCGTCGGTTCAGCCCTTCATGG
AAGCTTTTAGCTCAGAAGCGTCATACTGAGCAGGTGTCTTCAATAGGCCCAAAANTCAAC
CNTCTTCCAAGTGGGCCAGNATAAAGGCTTGACTTTNAAGTGGCTGGATGCAAAGGTNCC
TTTTTGGGTCCCTTCTCTGGGTANGGCCGAAANGGCAATATCCTGTCTCTTGTGCATTG
CCCCGCGTACCTGCCCGGGCGGCCGCTCTAAGAACTAGTNGGATCCCCGGGGCTTGCAG
GAAATTCGATATCAAGCTTAATCGATACCCGCTCCNACCTCGAAG

Sequence 2743

CTATAGGGCGCAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGAGAG
GGAACCGGGCGGAGCGGCCAATGCGGGAACGCAGGAGACACAAGAAGCGGATCCAGGA
AGTTGGTGAACCATCTAAAGAAGAGAAGGCTGTGGCCAAGTATCTTCGATTCAACTGTCC
AACAAAGTCCACCAATATGANGGNTCACCCGGTTGATTATTTTATTGCTTCAAAAGC
ANGTGGACTGTCTTTGGATTCAAAGTGGGCAAAGGCCAANAAAGGAGAGGAAGCTTTA
TTTACAACCGAGGAGTCTGTGGTTGACTACTGCAACAGGCTTTTAAGGAAGCAGTTTTTT
TCACCGAGCCCTAAAAGNTAATGAAANAAATATAACNAAANNCCAGAAANAAGGGGTCCC
TTGGGCNCGTTNTTAAACTAGNTGGGATCCCCCGGGCT

Sequence 2744

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGNCAGGTACACGGGGGCT
GTTGGTGGCGGCGGAGACAGCTGTGAAGTGTGAGGTTCTTTGTCTGCTGGCAGCTAGGGG
CGACGAGGCGGNACGTCATGGAAGTGAAGGATGCCAATTCTGCGC

Sequence 2745

CCCCGCGGNGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTN
ACTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGNTTCTTACAAAGGNGACATTTTCCANA
ACAGNGTAANAGNTTGAAAAAAATTCAAATTTTTGGGGGANCAGGGGAAGGANTTA
ANGAAACNTGTTTCCNNAATGCTNTGGAAACAAANCCTTNTTTTTCTTTTTTGCCC
CCCAATTTAACCCAAAGTTNAATNNGNCNAAAAAAATGGAANGGGNTTNCNNCNTT
CCGTTTTAAAAAAGAAAGGAAG

Sequence 2746

ACTNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTT
TTTTGTTCTGAAACCATAATTGCTTGGCCCTTCAGTTGAATAGGTTGAATGTTTCATCTAT
ACCATGCCCTTTTCCACTGTTTCTCCATTAATCTCTCACTTGTCTTAAATGGCACAGG
AGTTTTCCCTGAAAATCCTTTGAACTCTATTCTAAGGATGAGATTTTTTTTTTTGCT
AATCCATAGAAAAATGGTCACTATTTCTATTTGATTTATGAAACTGTTTTTTAATGAA
TGTTCTTAATTTGTTGTTTCTATTATCCCTTTTCTCCTTCGTAGGTTCTTTTTTTGTAA
TTCATCTTGTTAATAAAGTTCTTCTCACCTAGTTAATTCAGAAAAATTAATGTCAAGTA
GGATAAGGCATTAATTCAGGCTAGCAAGGATCTTTCTGGTT

Sequence 2747

TGGAANCTCNACNGCGGTGGCGGGCCGAGGTACCCAGAACTTAAAGTATAATAATAA
AAAAAGAAAAAAGAAGTTCATTNATTTTGACTCCTACAAAGGCAAGGAATAAGGGTTTT
TGNTGTTGTTGTTGTTTGGAGACTGTCTCGCTCTGTTGCCAGGGCTGGGAGTGCNAN
CTGGCCGTAATTTTGGATCAACTTNCAACCCCTCNCGCCNTCNCAAGGGTTTCAAAGN
CAANTTNTTCTTACCTTCCAANCACTTCCTAAAGATAAGCCTGGGNGNACTAACCGGGC
ATNCACAAACCANCCCAACNATNCAAGGGGCTNAAAT

Table 1

TAGATAAGCTTAGTTCACCGGCGCTACCACTGAAACCCAGAAATGGGACCATACAGCATT
TCAGTGTAGCCAGCACAACTTCACTGTAGTCTCTAGCAATAACCACACTGTAACACACTG
AGGAAACCACAGATGCCACTAATGATATTCACAGCCAAAGAAATCACACAGACTTCACGA
TTGAATGCAAAGCCAACAAACCCCAACCAACGAACATTATAGTCACATCTTCAGGAAAAA
AATCCTCACCTTAAAGAAAGTAAATTCAAAAATAAAAAGTGACTTTCATATCAGATGCA
CAGAAATCAATGTACCTGCCCCG

Sequence 2755

GGCGCCGCCCCGGCGGTACNCGGNATCNGCNCATATGGGCATCGGCATTGNCNGNGNC
ATGATATTTGGCATGATCTTCAATATGATCTTGCTGNGCTATCCGCAGGAACCGCGAG
ATGGTCTANAGTCAGCTTACATCCCTGAGCAGGAAAGNTTACCCATGAAGATTGGNGGGA
TNTTTTGTGTTATGCANATGNTTNGNTNGATGTTNGTTGTNTGACTGTTTGCCNNCTA
ATGTAAGTATTCNTNCANCATTGACTACGATAAACTCATGANGGTACATCACATTGGA
ATGTC

Sequence 2756

GTACGCGGGGGTAGACNGAAAGAAGAACNTGCNTNCTAAGNNNNNNNNCTNNGNNGAGAT
GCTGNCTCCTANNTNNNTNNTANNATNNNATANGNGAACCTCTTTGCCAGGAACCTATTTA
TAAACATNCTGCAGGAAAATGGTAGCTGAGACCAATGATGCTGACCTCCCT

Sequence 2757

TNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTAATCCGTCATCATCTCC
CTAGACAGTGACCAAACCTACATGCAAAATAATTTGAAAACCGGAAAAATTTAGAACACAG
TAAGCAGAATAAGCATGTAGATACCAGGGACAAGACAGTAGTTACTTACACTGTGAACTC
CTAAAGCTTTCCAGACTGCGAAGCTAATCACACCAACCCACACCATGCATACAGGGAGC
CCCAGCCCAGAGCTCGCAAGGCAAGGGAAGACCCGCTTTCCGGTAATGCAGCCGTGGCCA
TACTTCCCTTATTGAACCATTGAGGGCTTTTCTTTTATGCCAATGATAATGTTGTAATAA
ATCCAGCTAGCATTCCCGCTGCAGCAACGGTACCTGCCCGGGCCGCGGNTCTAGAAACT
AGTTGGGATCCCCCGGGCTGC

Sequence 2758

CGAGGTACTTTTTTTTTTTTTTTTTTTTTTGGGTGTTTGACTTCTGATAACTTCTA
AGTCTTACTCCTCTGTATGTCTTTGTTCCACATCTGAGCAAGCTAATAAGAAAGCCTGG
GTGCTTTCTGCTTTGGTGCTTACAGGAGATCCAAACCATACAACCCCTCTGCTTGCACACA
GGAACCTCTCACCTCAATCTCACTTTCTAACCACAAGCAAAACCCAAAGGCAGTCTCCTTT
CCTTTCTCCCATAAACCATTGCGGACCTACTTGGGAGGCCTGCACCCCATGTCCACAAA
AACTTGAATTCTGTAAGTAATAATTTTAAAGCTCTTTCGGAGTGGGTTTCACATCTCAG
TCTCAACATCTGAATTAAATATTGACTGANAGTGAATCCTGCACCTCAGAATGGCTACA
AAATGCTCTCTTANAGGTTTGTGTGTCTNTGCTTACATAACTATCTGNTATTNAAATG
TTGACTACTTTTTTTCATGANTNTAACATNTTAATTATTTTAAAAAAATCCTNTNNA
NTTCCACAATTGGCTNTTNTCTNANANATNGNTTNTNCTTACTGGGGCTTAAAAAC
TTTTT

Sequence 2759

CGAGGTACTTTTTTTTTTTTTTTTTTTTTTGGCTCGGGGGGGGGCGGTGAGGGG
AGGAAGAGTTATAGTAGAAGATAAAGAAAAAGATTTTTTTTAAATGCAAGCATCAAGAGC
CCTGAAAATGGCTAACTAGGTAAAGTA

Sequence 2760

GACTACTATAGGGGCGAATTGGAGCTCCACCCGCGGTGGCGGCCCGAGGTAATCTTTTTT
TTTTTTTTTTTTTAAATCAGACAGGGTCTTGCTCTGTTGCCAGGCTGGAGTGCAAGT
GTGCGATCTCGGCTCACTGCAACTTCAGCCTCCTGGATTACAGGCAACACTCCTGCCTCAG
CCTCCACGTGGCTGGGATTACAGGTGCCTGCCCCATGGCTAATTTTTGTATTTTTT
TAGAGATGGGGTTTACCATTGTTGGCTGGGCTGGTCTCACTCTCCTGACCTCAAGCAATC
TGCCTGTCTCAGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGCCCCAGCCTGA

Table 1

GCCTTTTTTTTTCTAATGCATCCAAGGTTAAGGGGAAGACGCAAATAACAGGACTACTC
TAAAAGGAAACCTGTTTGAACCTCTGTGAGATCAGTCATCAGTCTCAGTATCCACAGGCA
CACCTTAATTTTCATTGTAAAAAGANATATATATTTTGGCTATTTTGGGCTTTTGGGGGC
CT

Sequence 2761

GCGCCCGCCCGGGCAGGTACCTTGAAATCAGATAATCTCGACATCCAGAAATAGCCTTTG
ATTTGTTCTTTCTCTGATGTCCTTGTCCTTGGGATCAAAGCCTCTTCACTGGCACCAA
ATAATGCCCAGTGAGGAGTTCTGGCCATATAATCCTTTGCGCTGAACGTTTTGATCCAC
CACTATCTTCATATTCCTGGATGAGCTCCTGGAAGCGGTTATAATCGATCCATGTCCACC
ATTCACCACCAATTTTAACTTTCTGTGTCTATCAGGAGGCAATTAGAGTGTCGTGT
CACATGCAATTTTCATATTCGGGGATCAGATCCACCAACTCGTGGACAACTGTACCT

Sequence 2762

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCNAAAGGCTTNATTTTA
AGTTAATATGTATACANAGAAAGNGTNTATATTTTTGGGNANAAATNATGCNTTTCNTA
GGACAGGANTAATACATTTAGNTGGGGNTNTTATAAAANAGCNCCAANACNTTAGGNGGG
GNAACCAAACCTGGTTATGGGGNTTGATNTAANCCAAACCCATNACCCATAANTNTTTNA
GGTNGNAAGTAAGCANTATTATAACTTGGANTCNAGGGGGAGNAAAAGGGCCCCCTAAN
NGGGGAGGGNTNCCCANTTGGTCTAAANANTGNAAAATTTGGNANTTGTGCCAAGNTCC
ACCAGGCAGGGGGCAAAGNACANTNATTTTCTCCAACTGNNTCAGGAGGGGTTAAGNAG
NTAACNCTGGCCTAAGCTTGNAAAAAGGGCCCCCTACNTTCTTTGGCCGTTTTAAAACT
AGGGGGATCCCCNGGNCTTCAAAAAATTCNAAATTNAAAGTTTNATCNATACCTGTCTGA
NCCTTAAGGGGG

Sequence 2763

TGGGTATCTGCGCTCTGCTGAAAGCCAGTTACCTTTNGGAAAAAGAGTTTGGTAGCTCT
TGATCCCGGCAAACAAACCACCGTTGGTAGCGGGGGTTT

Sequence 2764

CCGCGGTGGCGGCCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTGGCTTTTTTTTT
TTTTTTTTTTTTTTTTTCCCNTTTTAAAAAAGGTATTAATTAATTCTTTTTTTTTT
TTTTTTNGGGAAGGGTGAATGCCCTTTTGGTTTTTGGCCATNTTCGGNNGGNCAANANA
AAAATAANTTTGANANATNAATNCNAAAGGAAAAAATTTTTTCAAAGNCCATNNNAAA
NTGGCNCCCATTTTTTGGCTTTTGGGGG

Sequence 2765

AGGTACTTTGTCTCTGTGTCTCTTTCTTTTCCAAGTCTCTCCTTCCACCTAATGAGAAAC
GCCCACAGGTGTGGAGGGGCAACCCATCCCTTCACTGAACCATTTTTATTCTTCCAGAAA
TGTGATTGATAACAGTAAAGCCACACTCCTCAAGTGCCTGAAATACCCCTCATTGTCTTC
TTCAGGTGGCAAGGGCTCTGGAACAGCCACATAAAGCCCTGAAGATAAGGATGGTCAA
CAAATAATATCATACCTGGAGAACTCAGATCTTGGTAAGATTTACTGGTTGGGAATCC
AAAGTTAATGCCAAGAAGCAGCCGCGCAGTTGGGATCAATGTGAGCCTATGGATCAAGGT
GCGTACCTGCCCGGGCGGC

Sequence 2766

CGAGGTACTCTGACATCATCTGACATGGCAGCTCCCCAGCCATGGTGGTGGTGATAGAAA
TATAAATGGTGACAGCAGCAGCAGTGTGATAGTCACGGTGGAGGGAGATTGCTTTCTGC
AGCCATGCTTCTGGCATCTCCCAACCTGGGTGGGACCCAGCTGAAGATCTGCAGAGAAAC
CAGCCATTTCTGAGAGCAAGGCAATCAGTGGGCATTTACTGGAGGGTGTCTAGGTTCTTA
ACATCTCACTGTTATTTGGGCTCATGGGATCATAAGAATGACAAAATAAGAGAAGTCCT
CATTTCTGACCACAAGAAGCTTGACACAATTCAGTAAGTCTTGGATTGAAAGGAGAGAC
ATGTTTTCATGTGTTTATATTCCTTAACAACCAATATACCTTGACATTGAAGAGCCAAG
ATGTGAGTGGGAGGTAGTGCTATGGTTTGTATGCATTTCCCAAAGTTTATGTGTTGAAA
CTTAATCCTCAATGCAATGGTGTGAGAGGTGGGACTTTAAAAAGTGATTAGGTTATGA

Table 1

GGGCTCTGCACTTATAATGGATTAATGCTGTTATCATGGGAGAAATGGGAATGGA

Sequence 2767

AGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTGGGGATGGAGTCTCGCTTTTTTGGCCAG
GCCGGA CTGCANTGGCGCTATCTCAGCTCACTGCAAGCTCCACCTCCTGGGTTACGCCA
TTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTACAAGCACCCGCCACCGCGCCAGCT
AAATTTTTGTATTTTTAGTAGAGATGGGGTTTCACCATGTTAGCCAANATGGNCTCGATC
TNCTGACCTNGTGATCTGCCCCGCTTGGCCTCNCAAAGTGCTGGGATTACAGGCATGAGC
CACCGCGCCCCGGCTTTACTTTCCGNAACTTATTGAGAGATGTCATGATCCTTATGGACCC
CTTCAGGGTTTNTACACAGAAAAGAAAGAGACAAGAAACAGAGGGCCCTCGAACTCTCAA
AAATAGGCCAAGATGGCATAATTAAGTCTATGAATCAAGATAGGTTTTCTAAGTGGAGAG
CAATACTAAATTTCTTGAAGGTGAAGACTAAAGGAAATACCAAGCATNTTATTTTAAC
AATTCTCTAAGAATTAGAAAAAATTAACCTCATTTTTAAAC

Sequence 2768

CCGGCAGGTACATTTCTTGTGTTGTCTTTTTCTTTTTCTTGTCAATTCTTGGGTGGGA
GAAAAGCCTTCTAATATTTCTCATCCAAAACTCATAGTCTGAGATTTTGCAGTTAAT
TTTATCATGATTAGTCTAGAATACGACTGCCTTTCAATTTGCATTACCTTCTTCGTCTA
ATAATGATTAATGCCTTCTGTCACTTTTTCTCTTTGCCATTATGAATGGAAATGAAAA
ATTGTGAATTCCTCGGTGTTCACTGAAAGCTAAAAGTAGACAACAGGTATGATGTCTT
GAAAGATGATGATGAAATACTTTGGACAATAACAATGAGAAAACTAATATCTTAAAACTA
TTTAGTTATTTTTAGCATAGTTGAGAATAATGAATTATAAATAATGAATTATAAATAATG
AACTATTAAAAACTATTAAAAAACAACAGTTTTTACATTTGTTTCAAAATGTAGGGAAAA
AATACGCTCACTAGGATTCATCATATTTCTTAGATTTATAAGAGTTCAGTGGACTCAT
TTGATAATTGCAAGATAGCATGAGTTTTAGTCTGTTCTTTAAAAAATAAGGTTTTCTCT
TTGGTCTTTGGGAAGACTTTTAAGAAAGAAT

Sequence 2769

CGCCCCGGGCAGGTACACTTCACTTTCTCGTGCTCTTCCTAAGAGAGTAGTGTTCCTCC
TCCCCACCGAGAAAAAAATAAAAGCAACAACCTGGAACCTCTTCCTTACCCTGCCTTGT
TGCAGACCTGGAGGCCCTTCCATTTCCCTTGTCTTTTCTTGTCTTTTTGGTTCC
CGCCGCAGTGGTCGAGTCGCCCTCGAACACGCTGAACAGCTCATCTCCGAATGCGTCCGC
CATTTTTGGGAGCAGTGAGAGCCCCGCGTACCT

Sequence 2770

AGGTACTGAGTCAAGGACGTCTTTAAGCTCATGGGCGGCTCCTTTACCCACGCTTTCTAG
ATCTTCGACTGCATCTTTTCTAGTTTTCCGAGTCCCCCCACAGCTTTTTTGTCTCCGTC
TAGGCCTTTTTCCAGAAGGCTGGATCTCTGCTTCTTGGCTTTGGTGCCTGTCTGGCTAA
CCCTGGGTCTTCACCTGCATTTTCTTTTCACTGCTGATGCTTCATGGCAAGGGTTCCC
CGATCCTGTGAGCGGCCCGCCCGGCGCAGGTACGCGGGGCACAGCGGCTTCTTGATCCTT
GCCACCCGCGACTGAACACCGACAACAGCAGCCTCACCATGAAGTTGCTGATGGTCTCA
TGCTGGCGGCCCTCTCCAGCACTGCTACGCAAGGCTCTGGCTGCCCTTATTGGAGAATG
TGATTTCCAAGACAATCAATCCACAAGTGCTAAGACTGAATACAAAGAACTTCTTCAAG
AGTTCATAGACGACAATGCCACTACAAATGCCATAGATGAATTGAAGGAATGTTTTCTTA
ACCAAACGGATGAACTCTGAGCAATGTTGAGGTGTTTATGCAATTAATATGACAGCA
GTCTTTGTGATTTATTTAACTTTCTGCAAGACCTTTGGCTCACAAAACGTAGGGTATG
GTGAGAAACCAACTACGGATTGCTGCAAAACACACCTTCTCTTTCTTATGGCTTTTTACT
ACAAACTACAAGACAATTGNTGNAACCTGCTATACAAGGTTATTTTAAANAATGGANGG
NCAAAAAAAAAAAAAAAAAA

Sequence 2771

CCGGGCAGGTACTTTGCCTACGGCAGCAACCTGCTGACAGAGAGGATCCACCTCCGAAAC
CCCTCGGCGGCTTCTTCTGTGTGGCCCGCCTGCAGGATTTTAAGCTTGACTTTGGCAAT
TCCCAAGGCAAAACAAATCAAACCTGGCATGGAGGGATAGCCACCATTTTTAGAGTCTCT

Table 1

GGCGATGAAGTGTGGGGAGTAGTATGGAAATGAACAAAAGCAATTTAAATCTCTGGAT
GAGCAAGAAGGGGTAAAAGTGGAAATGTATGTTGTAATAGAAGTTAAAGTTGCAACTCAA
GAAGGAAAAAAAAAAAAAAAAAAAAAGTACCT

Sequence 2772

CCGCGGTGGCGGCCGAGGTACCAAAAAGACTCTCAAAAACCAATACTCCACGGGCAAGG
GAATAGCCAAGTTTGTTCGGGTTTCCAATGAATGACATCAGCCCTGTGTAGGTCTCAATC
AAAATGGGTTCAGTTAACACCATCAGTTTCTTCTCTCCAGATCCAGTTGAATCTTG
TGGGCATTCTGGATAGCTGGAACAAGCTTAGACATGAACCCAGACAACTTGCAAATTTCA
AGGAATTTCTCACTGGTGTATTTATAGGATGCTCAGTGAAAGTAGCATAAGGAACTTCA
GTGGACCATGGGTTCCAGCGGGACAGAAGAGACTGCTCCTCCGGACTCCCCAGTAGATC
CTAAGGCCTTCTCCTTGTCTCTTGTCCAGGGACATCCAGGGAAGGTGAACCTGCCAGG
CAGATGCGATAGACAGCGCTCAGAGGAATCCGCTGCAGCTGCACACAACCTCAGCATGATG
AAGTCGTATTTGCAGATCAAGAGAGTCTTGTCTGTGACCAGTAGAATCTCTCCTTCTCA
TTGGTCCAAGTGGTCTATCTTGTCAAGAGCCAGAAGCCTGAATGGTCTCTTCAGAAAG
TCTCAGCTACGTGACCTTTCAAGTTTTCCATGGCAGTCTCAATGGCCCCCNGGCCGNTCT
AGAACTAGGTGGGATTNN

Sequence 2773

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAGTTTTAAACCTGTT
CTATTCTAACCTTGAATGGAGTCACATGTTTCAGCAGCAATATGCTGTTTCCCTTCTC
GGTTTCTCACATCACCTCTGGAGAATGGTGTGGAAACTGCCCTGTTTTACATCAAGAT
AAAAGCTTCAGGAAGTTACTGGAGAGTGGAAATGCAGGGGTCATTCTGGATAACACAAAAT
AACTATTTGATTAGACCAACCATTTGGTCTCTAAAATTGGGTGCTAAAGACAAAGATAGG
AAATTCAAAAAATCACCACTGTAGAAGAAAAATCAGTTAATAATTTGACAGATTTAAGG
GCCTCACCTTTCTCTACAGAACTTTACCTCATAACACCCCTGTTTGGGAAAATTGGAAAA
TATCTTCTCCTTACCTCCTAGGGGATAAACAAGAGTTTAAATGTTGCCACCAACTCAAAC
AAAACACACCTCATTCTTTATGTTCTGGAGGGAGAGGGAGTCTTATTTTGCTTCAAAGT
TTCTTTCTGGAGCTTCTTTTTTTAAGCAAAAAAAAAAAAAAAAAAAAAAGTACCTCGG
CCCGCTCTAGAACTAGTG

Sequence 2774

CCGGGCAGGTACAATGAGGCAGATGCAGATGCAGTGTGTGCTACTCCAGTCTTGAAGGAG
TTACTACTGGCTCTCCAGCAAGGGTATAATCCATATCAAACCAAAACACTTTATCTTTTC
CATTGCTAAACTTCGGTTCACAAACACCCGATGATAGGCTTCTCGACGATACTTTTTTCAG
GGCATGCTTATCCATGTTAGCAGACATATCTGCTGCATTCTGTAACCGATCACTCCAGGA
GGTTGACATTTTATTTTAACTGTATTTTGTATTACTTGTAAATCCCAGAACTTTGGGAGGC
CGAGGCGAATGGATCACTTGACGTCAGGAGATCACATCACTGTACCT

Sequence 2775

AGGTACTTTTTTTTTTTTTTTTTTTTAAANCNNNAAANCCNTTNNNNNAANTTTCCAAA
NTGGTTNGAANTTTNCCNTTTTAAGGTTTTNAACCNNNTTTTNNAAAACCCCCCCCCCN
TCCGGNAANANTAAGGTTTCNNGGNGGCCGTTTNAAAANNANGGAANCCCCCGGNNTGAAG
AAATTCAAANTTAAACNTNNTCAANCCCGNCAACCTCAAGGGGGG

Sequence 2776

TCACTNNNAGGGGCCGAATTGGNAGCTTCCACCGCGGTNGGGCCGNGCCCGGNAGAGGT
TAACCTTTCCGGGGGGNCCCACCGGTTTNAAGNNGGGGGCCCGGGGGGTTTTAAAGGGGG
GTTTGGGGGGTTTTGGGGAAAATTTGGGGGGGGGGGNNNNNNGNNNNNTTTTTTTTTTN
GGGGGGGGGGGGGGGNNNNNNNNCCCCNNGGGGGGGGGGGNNNNNNNNNNNNNGAA
AGAATTGGGCCCANCGGGGGAAACAACCTTAACCTTTGTTTGGCCAAACCGGCCCTTTGG
GCCGGGGGGCCTTTTTTTTNTTTTCNANNAAAAAAATTNGAAAAACCGGGGANCAAGA
AAAACCCCGGGGCCCCCCCNTTTTTTTTTAAANCCCCCAAAACCCAAA

Sequence 2777

Table 1

CCGGGCAGGTACGCGGGAGCTAATCTTTGATAAAGACTAACTATGGGCAAGGCTTTACTC
TTTGTGTTAGTAACCTACTTAATCCTCATTATAACCCCTTTATATAGATGCTGTATTTT
CTCCATTTTACAGAGAGGAAGTAGAGCCTCAGAGATGTTATGTCACCTTGCAAAAGTCAC
CCAGCTAGTGAATGGCTGGATCAAACCTGGATCATGTCCAAGTAGCCTGGCTTCAAAGTTC
ACACGCTTTACTATATTTATTCTTTTTTTTTCTTTTGAGATGGAGTTTCGCTCTTGTTG
CCCAGGCTGGAGCACAAATGGCATGATCTCAGCTTACCACAACCTCCACCTCCTGGGTTCA
ACGCACTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGATGCGCCACCACGCCTGGCTAATT
TTGNA

Sequence 2778

CCGGGCAGGTACAAATAGCCGTGATCTCGGCTCACTGCAACCTCCATCTCCCAAGTTCAGG
CAATTCTCCTGACTTAGCCTCCCAAGTAGCTGGGACTACAGGCACATGCCACCACGCCTG
GCTAATTTTTGTATTTTTGTAGAGACGGGGTTTCACCGTGTCGCCAAGGTGCTCTTGA
ACTCCAGGCCTCAAGTGATCTGCCACCTCGGCCTCTCAAAGTGCTGGGATTACAGGCAT
GAGCCACCACACCTGGCCTGGATTAGTAATTTGCGATTTCCAAATTCAGGTCAAGAAGTG
GAATTTATTATGGTGGGTCTTGTGAAAAAATATAAATGTGGCCTTTTAAATATATTTA
GTTTTTTTTTAAACAAGGCTACTCAAACCATTACCTTCCTGGCCCCCTTGAAAAGAAAA
AAAAAATNTATCCATGCCATTTGCTTCTCTAATTTTGAAAAGTCAGAAAGATCTCAA
GGTTTNTTACTACCGTACCTN

Sequence 2779

[illegible]

Sequence 2780

ATTGTTATCCCGCTCACAAATTTCCACCACCAACATACGAAGCTCGGGGGAGCANTAAAAG
TGTTAAAGCTCTGGGGAGGTGGCCCTAAATAGGAGATGTAGCCTATACCTCANCAATTT
AANTTNGCCGTTTGNCAGCTTCACCTT

Sequence 2781

ACGACTCACTATAGGNGCCGAATTGGTAGCTCCACCCGCGGTGGCGGCCGAAGTTGCCTC
TTTTAGGAATCTCTTTGGAATTGGGAGCACNGATGACTCTGAGTTTGAGCTATTAAAGTA
CTTCTTACACACCAAAAAAAAAAAAAAAAAAAAAA

Sequence 2782

AGGTACTTTTTTTTTTTTTTTTTTGGNTTCATTACTCCATTATGTTACGCTTATG
CTTGGGAN TTCATTTTCGACATATTGCAAAATTTATACTGTGGTCAGAAATTATTCAGGTG
TATCTCCTGANCTGTGGAACNTNCTTTACTACNTTAACCCCTTATAAAATTTTAAATTAAA
CCTTTTAACCCCTTTTCAGGGGAATAAGGCATTCCCCCAAACCACCAACCTTCTTAACCAA
NTGGAANACNTTANCTCCTTNGAAAAAAAAAAAAAAAAATTTTAAGCCCCCAAANTNTTAATT
TTAATTTANAAAAACCTTTTTTGGCNTTTTANANCNTTTTTNTGGTCNTCGNAAANGGGGN
AACATCTTTTGGTACNTTTTTTTTTTCTNAACCCCTTGGAATAANAATTTTTTTNTAAA
CCNTCTATTAAANTNGCCTNTTTNCCTTNCCTTNTTGGNANTTGAGGNCNAACCTTAA
TAGAANATAAACNTTCTAATTCAAAAANANNANTNTTTAAANNNGAACNCTTTNTC
AAATTGGGGCCCCCTTTTTT

Sequence 2783

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGACGCGGGGAGGCAGACATGGGAGTGC
CAAGGTGGCCAGATGGTTCAGGACTACAATGTCTTTATTTTAACTGTTGCCACTGCT
GCCCTCACCCCTGCCCGGCTCTGGAGTACCTGCCCG

Sequence 2784

Table 1

GGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGTTTCTCTTTCATCTTCACTTTT
GTTCAAGGAGCTTCGACAGCCTTCTCTTGTCTTCTAACGGGACAGTTGGGGCTTCAGGAAG
GGGACTGAGAATAGGGGTGTG

Sequence 2785

ATAGGGCGAATTGGATNTCCCCGCGGTGGCGGNCGAGGTACTTCTGCCTGGGTATGGGA
GTAAATCTTGTCCANNGACATCCCAGGGAAGGTGAAC TTGCCAGGCAGATGCGATAGA
CAGCGCTCAGAGGAATCCTCTGCAGCTGCACACAATAANTCATGATGAANTCNTATTTG
CAATCAAGANAGTCTTGTCTGNNACCAGTAGAANTNTTCTTNTGATTNTTCCANTGG
TNTATCTTTGTCAANANCCAGAAGCCTTGA

Sequence 2786

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTAATTATGCA
ACAACAAGATTTGCAGGGAGCATAACCACATAGTTCCCCTGAGTATGCTGCCAGTATGCT
CCACAAATGATTAATATAAAATAAACAAGAGCTAACTGTGAATATGAAGTTGTAATTCC
ACCAACGGGGTTCCAGTGATGTCATAAACCAGTAGAGCAAAATTCATGTACCAAAGGAT
CCCAGATGGGCTTAGAGAACTGTACTCAGTAGTGGTCTCTACTACAGACGTGGGTCCAGG
AAACCCTTTTACCTCTGTTTTCTGCCCCCTTACATCTCTACAAGTGCCCTTCNTTCTTG
GTTTCTTCTTCAAGTTTTCTAAAATCATACTTATCCTGCTTTTCTAAATGTAAAGTTCT
TTTAATTCATTCAATTGGGTCTATCATTANGGGCAGATGAACCAATACATNCTTTTGGA
CAACGATTCATAATTATATATACTTTTATTAGAAAAAAAAAGCCCGATATTTAATAGAA
AATCCCATTTAGGACAAGAGCCTTAAAACGTACCTCGGGCCGCTCTAAGAACTAGTGGGA
TCCCCNNGGCTGNCAGGAATTCGATAT

Sequence 2787

CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGACCCTAGATCCCAAGATCTCCAAGGA
TTTGGTGGGCATACCCACTCCAGCACACAGAAGCATGAGGTTTCATGACTCTCCTCTTCT
GACAGCTCTGGCAGGAGCCCTGGCTGTGCCTATGATCCAGAGGCCGCTCAGCCCCAGGA
TCGGGGAACCCCTTGCCATGAAGCATCAGCAGCTCAAAAGGAAAATGCAGGTGAAGACCCA
GGGTAGCCAGACAGGCACCAAAGCCAAGGGAAGCAGAAGATCCACCCTTCTGGAAAAAG
GCCTAGACNGGAGCAAAAAAGCTTGTGGGGGGGACTCGGAAAAGTAGGAAAAAGATGCA
GTCCGAAAGATCTAGAAAGCGTGGGGTAAAAGGAGCCGTCATGACGTTNAAAGACGTCC
CTTGACTCAGTACCTCGGCCCGCTCTTAGAACTAGTGGGATCCCCGGGGCTGGCAGGAA
ATTCGATATCAAAGCCTTATCGATACCCGTCGACCCTCGAGGGGGGGGCCCGGGTACCCA
GCTTTTTG

Sequence 2788

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTT
TTTTTTTTTNTGGAAGATCATGGAGGCCATGGGGTTGGCTTGAAACCAGCTTTGGG
GGGTNCGATTCTTCTTTTTT

Sequence 2789

CCGGGCAGGTACAGCGGGGAGACTGGCAACCTGAAAAGGCTGTCATTCTACAGGGCTC
TAATGANGTTGAAC TTGTGCTGANGGCAACAGCAGGTTCACTTACACTGNTCTTGANA
TGGCTGCTCTAAAAAGACAAATTGAATGGGGAAAGGACAATTCNTTTGGAATTACCAA
AAACANAATTAAAGGGCCANTTTACNGNCCCTGNCCCTTNCNCTTTGGATAATNTTTC
CACCNCTTTNTGNGGACCAATNCAGGTTGGGGTGNCCNTGAACTCCAAAAAAATTTT
CNTTTTTGTTNGGGGAACCAATTNTGNGNCCCAAGCTTCCTTGCTTTTTTCAAAAAAN
TAAACAATTGAAAACCTTCNAANATTTCTTAAAAATTTTAAAAAAGNAAA
AAAAGNAAACAATTTTTGGACATANAAAAACNTTTTCTTCTTTNTGGGCCCCCAA
TCTNTGCTTTTCCATGTCCTTTNCCTTTTTNGTTTAAACCTTNGCAANACAGGCCCTT
GGAAAATTCNCCTTTTNCNCAATTTTTCTTTTTNTTGGGCAACCAATNCCTTAACCTT
TNNGCCTTTTAA

Sequence 2790

Table 1

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTAAGTACTTACACTGAAAACTTCAAGCA
AGTAGCACCAGGGCTCCCCCTAAGCATAACAGGGGCTGATTAGCAGCCAGAAAGAACCC
CTCAAAAAGTATATAAAATTTATTGCGTCCTAGCAAAGATCTGCAGCTTCCAGTATTCACA
CAATGTGAAGATATTAACAATACAAAATATATTTTGAAAGTCAAACACCTGTAGTTCATA
GTGCTTTTTTAGATTTGTTAAAAAATACAATGCTTAGTTTCCTATATAGGATATACAA
AAGCAAAAATACATATGTATATAGTAGAAATAAATCAGCCATAGTAATTTACAGCTTTT
GTCTCCAACCCCTCCCCTAATCATAATCTTTATCCACACTTCAGTATATACTTTCTGGGA
TCAAAGGATCAATTTATTCTGAACCAGG

Sequence 2791

NCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAGGACTGCATCGAGTC
CACTGGAGACTATTTTCTTCTGTGACGCCGAGGGGCCATGGGGCATCATTCTGGAGTC
CCTGGCCATACTTGGCATCGTGGTCACAATTCTGCTACTCTTAGCATTCTCTTCTCAT
GCGAAAGATCCAAGACTGCAGCCAAGTGAATGTCCTCCCCACCCAGCTCCTCTTCTCC
TGAGTGTCTGGGGCTCTTCGGACTCGCTTTTGCTTCATCATCGAGCTCAATCAACAAA
CTGCCCCCGTACCTGCCCG

Sequence 2792

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACCGCGGCCCGN
TAAACATGTGTCACTGGGCAGGCGGGGCTCTAATACTGGTGATGCTAGAGGTGATGTTT
TTGGTAAACAGGCGGGGTAAGAATTTGCCNAGTTCTNTACTTTTTTNACCCTTCTCTAT
GAANCATGCCTGGGTGGGTGACAGTGNAGGGGTAAATAAATGACTTTGTTGGGNTGAAT
TGTAAGAATATTGGGCCTGGTTAATTGTCAAGTCAAGTGTTTTAAATCTGACCNCAGGCT
TTATGCCGGANGAAGAATGTTTTCATGGTTACCTTATACTAACATTAGTCTTCTATAGGG
TGATAGAATTGGTCCAATTTGGGGTGTGAAGGAAGTTCAAGTTATATGTTTGGGGATTTT
TTTAAGGTANTGGGTCCCCGCGTACCTCGGCCCGCTCTAAGAACTAGTGGGATCCCCCG
GGCCT

Sequence 2793

CCGGGCAGGTAAGTCTTTTNTNTNTNTNTNTNTNTNTNTNNGGCGAGGGGCANATGGCTGTTT
NTTGATCCTTNAAGTCTTGNNTTNAATTANATCATACTTTGCCAGCGAGANATGGAAACAG
AGGAAGGGATCTAGNAGAACGNCCTGANACAGGGGCACCAAGGGTCAGGCTGCTGGAAGG
CATTGGGGAAGGCTAATCTCCACTGGACCCCCAGGCTTGCTTTAACACAGGATTTTGGG
GCTTGCTNCAGGCTTGTGCTTTTTTGGTATCTCCTAATCGCAAAAAGAAGCGTCCAGC
AACAAACCAGGATTCCAAGCGCCGNGGCCACACCCGACTTCAACCTTGGCCTTTTCCACCT
GTTTACAGCGGGACTTTGCCATATCTCAACTGGGTGACAAAAGTGCTCACAGTTCTGCTT
ACAAAAGTGGACCTNCGCCGTCTANAANTANTGGATCCCCCGGGCTGCANGAATTCNA
ATATTAAGCTTTATCGATACCGNANCCTTGAGGGGGGGG

Sequence 2794

CTATGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTAAGTACTGCTCAAAATGGCTG
GTGCTACTGGTGCACTAAGTTGTGAGGAATTACCTCTGCTCGGGACAGAATAAAAAATCC
TAGGCCTCAAGGAAAACTGGTGGCATCCTTCTGGGTCTTTCAAGTCTTGCATCTAAA
AATCAATCTTGACAAAAATAAAACAAAAAGCCACAACAAAAGAAAGCCAAACCAATCCCC
CACCTAAAGGAAGAAAAAATTGATGTGAAAGCCATCCACCCTTCTACCC

Sequence 2795

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGGGCAGGTAAGTACTGCTGCAGGCA
GCCCTGCTCTGCGTCAACGCCATCGCAGTGCTGCACGAGGAGCGATTCTCAAGAACATT
GGCTGGGGAACAGACAGGGAATTGGTGGATTTGGAGAAAGCCGGGAATTAATCACAAG
CTAATGAACCTTATTCGATCTGTAAGAACCCTGATGAGAAGTGCCATTGATAATAAGTA
AACTCAATTGCAATTGTGTTACTTTTATTATTTGGATGAATATCAAGTGGAGAAAATGGA
GACTCAGAAGANGACATGCCAGTAGAAAGTTATTACTTTGGTCATTATTGGGAATATTTA
TATCTTAGCTGGCTGACCTTGCACTTGTCAAAAAATGTAAAGCTGAAAAATAAAACCAGG

Table 1

GGTTCTATTTATCTGGTTTTTTTTAATGGTGCACCTTGNAGGTTTCATTCCAAAGAATCAGA
TCTGGAAGGCAGNACCTTTCCAGACTGGAATTCTGATGCTCANGGTNATATAGTTTCATGC
CTNNGNGAGAATGNTNAAAGGGGCCAGACTGGGGCTTNCCTTTTTTAAAAATTTCTAT
CNCCCCCTTCCCAGGGATGAAAAATTTTTTTTCAAAGGNTTGAAGGTNCTTGGACNTAA
CCCCCTGGGGGGGGGGTTCNCCNTAATAAAAAATAAAAAGGGTTTTTAAAANGAA
TTTCCCCCANAAAAANGNAAAAANAGGGGNANTTTNAAAAATTTTTT

Sequence 2796

ATAGGGCGCAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACAGCCACGGTCA
CACACTACCCACAGCGCGGTGGCAGGCCCGCTGCTCAATGAGGAGACGATCACACCATTT
CGGAGATAAGCAGTGCCATTGTGTCTGGAGGAGAAGAGAGAATTAATAAATAAGAAAT
TCAACAAAAAATATATATAGAAAAAAGAAAAAACCAAACAGAAAGTACCTCGGC
CG

Sequence 2797

ACACACTACTTATGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTA

ACTCGTAATAAATATGCATCCGGAAACAAGATAAAAGGCTACACCTCGTCAGGCATCCTACAAAAAT

GTCTCAAGTTTTATATACTCTGCAGCATTTCTGTGCGGGGGCAGAAAGGGGCTGTTGTGTA

TTTTCTGAAGTGCTGTGACAAAAGTCCTTTTACATTTTCTTTTGGGAAGCATTTTTGA

AATTGCTTA

ACTATAATTAACAACCTTAAGAAAAGTAACACCAAGCTTTAAAGCCATTTT

TGCTTTTGCTGTCATTGGTCCTTATCCAATAACAGATCAACATCATCCAGCAGCAGCCCC

CGCTACCTCGGCCCGCTAGAAAACCTAGTGAGTCCCCGGGGCTGCAAGGGAANTCCGA

TATCAAAAGCTTTATCGATTACCGTTTCAACCTTCGAGGGGGGGGGCCCCGG

Sequence 2798

ACTTAGGGCGCAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCTCTTCCCACTCTGCG
GTTCTGCCAAGCACCTTGCCTGGGCACTTGTGTGTGTGCAAGACTCTACAGTGTGTTGTC
TGCTGCTTTTTTTTTTTTTCTTCTGTTCAATTGGCAGCTCTGTTTCCTAAAGTGGA
ATGAAGTGAAGATACAAATACTAATAGAAGATAAAATACCCATAAGCTGAAAAAAGAGA
CAGAGAGCAATCATGTTCAATGTCACCATCCTGCCAACCCCCACTCTGTAAATATACAT
TATCACCTACTCTCAGCATCTCACTTTTGACACTAAAACTTAAATAATTTTATTTAATA
GGGAGAATTTATAATTATTAGTTTTTATTTCACAAAAAANAATAATCCACAACCCAG
GGGAAACCCCTACAACCTGGGTTGCAAACTCAGGGCTTT

Sequence 2799

[illegible]

Sequence 2800

ACTACTTATGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGT
GGGGGGGGTCTCTGGTCTTTGGCTTCTCGACTCGGTCTGTTCGACAGCGAACATGTGCG
GGCCTGTCAGAAATAGGAAGGTTGTTGATTACTCACAGTTTCAGGAATCTGATGATGCAG
ATGAAGATTATGGAAGAGATTGGGGCCCTTCCACTAAGAAAANTTCGGATTCTATCTCCCC
GAAGAAAGCTAAAAAATAATTAGGNCGATCTGGAAAGAATTCACAGGNAAGATAGTGAGG
ACTCANAAGCACAAAGATGTGAAGACCAATGAAGGATGATTCTCACTCAGCAGAGGATA
GTGAAGGATNAAAAAGAAAGATGATAAAAAATGTTGCCGCCAACAAACGGCAAGGGNGGC
ATTCTAAAGCAACCTTCTAAACAAGAA

Sequence 2801

Table 1

TCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTT
TTTTTTTTTTTTTGGTTTTATTTTGTGGTTTTTGTTTTGTTTTAACTTTGCAAC
ACGATGGTGATGAGGAATGCCTTGCCAGGCTCTCCCAGACACATCTGTGGTTCTGGGCTG
TGAATGTTAAACACACACTGGGATAGACGACCAGGGATGANGTGTTCCCTATNTTCTCCC
CGCCCACCANTTGTCAATGTGGCCTAAAAAAGGCTTTAAAGGGAAAACNAACTTAAAA
AAACATTGAGTTTCCCTGCATTTAGCTGAAACAGGGATCTCGTCTGAAGGGCTGGAGGAA
CGACNCGGATCAGCCACTTGCCCTCCCGGCCACGGCTCGCTCTAGAACTAGTGGGATC
CCCCGGGGGTC

Sequence 2802

NGTGCCAAGCTGCCATTAAATGAATCGGCCAACGCCGCGGGGAGAGGCCGGTTTGCGTA
TTGGGGCGCTCTTCCCGCTTTCCTTCGGCTCACTGACTTCGCCTGCGCTCGGGTNCGTT
GGCTGC

Sequence 2803

AGGTACGCGGGGACTGCTAGGGGCTTAAGCGGAGGGAGTCGAGCCAGCGTCGCCGCGATG
GTGTTGTTGGAGAGCGAGCAGTTCCTGACGGAGCTGACCAGACTTTTCCAGAAGTGCCGG
ACGTCGGGCAGCGTCTATATCACCTTGAAGAAGTATGACGGTCGAAACCAAACCCATT
CAAAGAAAGGTACCTTGCCCGGGCGGC

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nnnnnnnnnnnnnnnnnnnnnnAGGGTTAATTGCGCGCTTGGCCGTAATCATGGTCATAAGCCT  
GTTTCCTGTGTGAAATTGTTTAATCCCGCTCACAAATTTCCACACAACAATTACCGA

Sequence 2804

CGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTGCA  
CGGGCGTCAATTCCATGCCAGAGGGAGGATGAATTAGGGATGAAAAGGAGGAGATAAGGA  
AGAGTTACAAGGTGGGCAAACCCAGGGTCTAGTATCGTTTCTCAGGGGAAATTCGCTGTC  
GGGGAAAATGGAGCACTCCACATCTATTAaaaaaATGAAAGAAAATCCTGGGGGTGCAT  
CTTGCTCTCTGTAGGACTTGGCCTCATGTGAATCCCAGGAAGCTGTGTTTCCAGAGGCA  
TGCTCTTTCCAAACCCATCTGCTGCTCATGTGTTCTCTGCTTCGCCATAATGTGGACA  
GATCTCACCGGGATGCCACCGTGGGAAGTCGGGAAGTGAATAAGTGGGGCCTTGCCCG  
GGGGGTTGCCCGGGGGGAGGTGCCTGGGNTATTAGGAGGAAGACTTAAGTG

Sequence 2805

CCGGGCAGGTACGCGGGGGGGTGTGGAGTGGATGCTTTGGCAAGATGGCGGGGAGCGG  
CGTCCGCCAAGTTACTTCTACCGCCAGCACCTTCGTGAAGCCCATTTTCAGTCGGGACAT  
GAACGAGGCCAAGCGGAGGGTGCGCGAGCTCTACCGCGCCTGTTATTCGGGGAGGGTGCC  
GAACACTTGTGCACCAATTTCCAAGCTTGGACATCACNTGTGAAAATGGGACGGGATAAA  
GTCCGAGAAAATGTTTATGAAGAAATGCCCATGTCACAGACCCAGGGTGGTTTGATCTT  
CTGGTCATTAAGGGAAAGATCCGAAGTGAAGAAAACAATTAAGTAATGGAAGCNAGC  
GGGACACATTGTTTATTGCCGGTCTTCCATGAAAAACAAGAAGCCGCCAAGGGCCAAAGG  
GATTTTCTATCC

Sequence 2806

ACCTGTCGTGCCAAGCTGCATTTAATGAATCGGCCAACCGCGCGGGGAGAGGCGGTTTT  
GCCGATTGGGGCGCTTCTTTCCCGCTTCTTCGCTCACTTGACTTCGCTTGCCTCGG  
GTCCGTTT

Sequence 2807

GACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTAATTTGTC  
TTATCTTTTTCCCTTCCTTTAATCGCCTAGGCTATTTTCCTGCATTATTCATTTTTAA  
ACTTTTAAAATCCAGAGTGGGTTAAAATGCTTATTTTACTCAAAGACTGTTTACACTGCA  
CTGTGAAACATCAGATTATCAAGTTCAGTCTTTAAGGGGAACCATCTCTTTTGACATC  
TTAAATTTAAGTCAAAAAGAGTTTCTTAAAGCTGTTAGGTGTA AAAATATTTTAACTT  
CTTATTTCAAATTTTAAAAAATCATACATCAGTTCATGTATTCATTTCAITCAGTAAG





Table 1

CGTTTCGGCAGCAAAGTGTGGGCACACCATCAGGGGTGCTAGATTTATTCATCGGGATT  
GCGCCCCGCGTACCTGCCCCGGGCGGC

Sequence 2821

TGTGCCTATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGG  
TACGCGGGGGACTCGGAAAAGTAGGAAAAGATGCAGTCGAAGATCTAGAAAGCGTGGGTA  
AAGGAGCCGTCCATGACGTTAAAGACGTCCTTGACTCAGTACTATAGCTGTAAGGAGAAG  
CTGAGAAATGATACCCAGGAGCAGCAGGCTTTACCGTCTTCAAGCCTAAACCTNGTAA  
AAAAAAAAAAAAAAAAATTTAAACAGCTATTAAGTAAAGCATNTGTTAAAAAAAAAAAA  
AAAAAAAAAGGTACCT

Sequence 2822

GCGTATCGACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGC  
ATCCTTAGGAGACCTGAGTCCTCAAGAAAACCTCTTCTGGAAGTAGTTGCTCCTCAGA  
ACGTTTTACAGAAAACACTAATGTAAAAGACACAATAATGTAAAAGACACAAAAGAGAT  
GTGTTCAAAGACACATCTCTGAAAACACAACTACAATCATCCTCCTGAGGCAGTTTCCG  
CTGGGACTGCATTCAACTTAGAACCAACTGTTAAACAACTGAGACAAAATGGGAATACA  
ACAATGTGGGCATTGACTTGTCCCCTGAGCCCCAAAAGCTTCAATTACCCATTGCTCTCGT  
CCCCAGGTGATCAGCTTGAATTCAGCTAACCGAGCAGCTACGGTCCCTCATCCCCAACG  
AGGGGATGTGAGGAAAGTTCATGTCTCATGTTATCTGGACCTTGAAAATGGGAA

Sequence 2823

GCGAATTGGATTTCCCCGNGGTGGCGGCCGCCCGGGCAGGTACTGCTGTGGACCTCTTGA  
AACAAATTGTAAAAGNTTGACTTGAAATGATCAAAGTGTGACAGCAACTTGACTGCCT  
TCCTGAACAAAACCTCAAAGTTATAGGGACACAAAATATGCAGCAACCAACAAAGTAAAA  
TTCACAGTGTNTGGTTTTCTATCAAAGTTTGTAGCCACACTAAACAGGGAAATGACCAT  
AATGAAGGGATAATCAATCATGTTAACTGACTCAGAGCTGACACAGGTGTAAGAATTA  
CNAGAAAAGAACATTAATCAGTTTTATACTGTATACTGTACATCCCCCAAATTAAGT  
NGACAAAAAAAAGATATAAAATATTCAAGCTAACATTAAGAAAGAAAACTGGGGCTT  
GGTGCTGTGGCTCAT

Sequence 2824

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAGATATTTACTTTATGA  
ATTAAGCTGGAGTCAGTGTGAGCCCGAAGGCTGAAGGAAAAAGAGCAACAGATCCAGGG  
AGCATTACCTGCCCTGTCTCAAACAGAGCCACCAAGGAGGAGCAGGGGAGCGA

Sequence 2825

CCGCGGTGGCGGCCGATGCACAGAGTAGAGCCTTGTGCAGGTAAATTTCTCATCCCAGCA  
CTCTGCAGTGGTATTTTTTTCACTGAGGGAGAGCAAGAAAGCCAGGCTAGGCGTCCCCGC  
GTACCTGCCCCG

Sequence 2826

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTAAAAATTNAAAAANNTTNNNGNNTNAGGGGCCNAAA  
AANGGNANNTTNGGNNNNNAAAAAAGGNCCCCCTTTTTNAAAAAANNNNNN:NNNANGGN  
NNGTGGGGGANCCCCNNCNNNGGTTNAAAANGGNAANGGNANNTTNGGAANAAANTA  
NTTAANNCCNTNNNTNTTTTTTAAAAAAGCCNNTNCCNCCNGGNAAAAAAGG  
GNAANCCNANNATTNGGNNATGCCNGGNACCCTTTNAAAGGGTCCCNAAAAAAG  
NGNCCCNCAAAAAAANNNGGNANNNCNCGGGGGANGGGAAA

Sequence 2828

CGGCCGCCCGGGCAGGTACGCGGGATGGAACTGGGGAAACATGCATAAGTGCCAATCCT  
TTGAATGTTCCACGGAAACACTGGTGGACAGATTCTAGTGCTGAGAAGAAACACGTTTGG  
TTTGGAGAGTCCATGGATGGNGGTTTTAGTTAGCTACGGCAATCCTGAACCTCCTGAA  
GATGTCCTTGATGTGCAGCTGGCATTCTTCGACTTCTCTCCAGCCGAGCTTCCAGAAC





Table 1

GGGATCTCACAGAAAATGACCAGGTGTGGCTCCAGCTTCCCAATGCCGAGTCAAATGGCC  
TATACTCCTCTGAGTATGTCCACTCCTCTTCTCAGGATTCTAGTGGCTCCAATGTGAG  
TACCTGCCCCG

Sequence 2836

AGGTACGCGGGGAGTCCTGAAAGGGTGGGCAAATGTGCAGCTCTCCCTCAGGGTCGTGGG  
ATCTGGGTCCAACAGTCTGGCCTTTCAGCCTTCAGGCTGTTTTAGGCTTGAAGTTTCGTG  
TGGCTGATCAAAGAAAGAAGGCATACGCAGATTTCTACAGAACTACGATGTCATGAAAG  
ATTTTGAGGAGATGAGGAAGGCTGGTATCTTTCAGAGTGTAAGTAATCTTGGAATATAA  
AGAATTTCTTCAGGTTGAATTACCTAGAAGTTTGTCACTGACTTGTGTTCTGAACTATG  
ACACATGAATATGTGGGCTAAGAAATAGTTCCTCTTGATAAATAACAATTAACAAANAA  
NAAAAAAAAANNAAAAANAGTACCTGCCCCG

Sequence 2837

CCGCGGTGGCGGCCCGCCCGGGCAGGTACCCGTTCTCCAGTGCCCAGAGATGCTCTCCG  
CACCAAGCCACAGATGTGGAGGAGGCAGGTAGGGGGTCAAAGAGGGGTGGTATCGGTTAT  
TCAGGACTTTTTTTTTCTTAAATATCCTGTGCTTCTTCAATCATTTGAAGGTAAAACC  
AGGTCCTGTGAGTGGTAACTGATTTTTGGTCTTATGAAGGTATTATTTCTGTGTAGA  
TATTTGTAACTTGGTGTCTTGCAGGGTAGACGATCAGCGAAGCTTTCTGTTCCACCAT  
CTTGCTCCTCTCATTTTAGACCTAATATATTGACTATAAGTGTTNCCCTCTGGAAGTATT  
GACTATATCTGCATCAATACTAAGAAAATAAAATNTAATCATAGAGACTGAAACATATTA  
A

Sequence 2838

CTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACCAGAACTTAAAG  
TATAATAATAAAAAATAAAGTATTACAGAACATGGTCAATTATATTAAGGATAGATTAA  
TTAATGTCCATATACATTTTTTGGTGGAAATCAAACATAATGAAACTATTTACATA  
ATTAATATTTGTTATTTTTACTTATTAATTTATTGCAGAGATGGGAGTCTTGCTATG  
TTGCCAGGCTAGTCTCAAACCTCTGGCCTCAAGTAATCCTCCACCTCAATCCCCCAA  
ATGCTGGGATTTTCAAGAACATGCCACTGCACCTTATTAGTGTTACCTGTCATAAAGTTAA  
TACTCATAATTTATTTTCAGTATATATATATATATATATACACACACACACCATA  
CACACCATAGTAGAATAAATTAATTATATTTTCTACAAAAATTTTCAATCTTTTTTG  
GTACAATGAGTATCATTTTACATCTTATCTTAAAAATGCCTGGAGAAGGATTACAGNCC  
CTGCCAATTTGGTTTCTTTGCCAAAAATCNGGTCCTTGNTTCTTACCACTTAAATTTT  
TTCCAAAAATTATTTNNNCTTAAGATTATCCCATTTGTTTAAATTTTGAAGGTAAAN  
TTTCAAAAAAGNCCCCGCAAGGGTTNAATGGANNTTTTGGGG

Sequence 2839

CGATGGCCTCTTCTAGGCAGATCCGTCTACAACCTGGTAACAGCAACCATATCGAGTTTCT  
CTTTATCACAATACCACGAGGCTTATCATCATTGCCATGCCTTTAGTAACATCACTTTTT  
TAAATGGGCATTTTACAATGTAATCTGCAACCTACATATAACATGCACTCTTTATTGAA  
GGCCGTACCTGCCCCGGCGGCCGCTCGAGAGACACATTACCTGAATGAGCAGGTGAAAGC  
CATCAAAGAAATGGGTGACCACGTGACCAACTTGCGCAAGATGGGAGCGCCGAATCTGG  
CTTGCGGGAATATCTCTTTGACAAGCACACCCTGGGAGACAGTGATAATGAAAGCTAAGC  
CTCGGGCTAATTTCCCATAGCCGTGGGGTGACTTCCCTGGTCACCAAGGCAGTGCATGC  
ATGTTGGGGTTTCTTTACCTTTTCTATAAGTTGTACCTCGGCCGCTCTAGAATAAGTG  
GATCCCC

Sequence 2840

CGAGGTAATTTTTTTTTTTTTTTTTTTTTTTTGGNNTANAGACAGGGTCTCACAAATG  
TTGCCAGGCTGGTCTTGAACAATCCTCCACCTNTGCCTGCCAAGTAAGTGGGATTATA  
GGAATGAGCCATCATGCCTGGCTCAAATATACTCCATTATAATCATATGGGACCCTGTCC  
TATATGGGGTCTGTCACTAACTGAATCATCGTTATGCANCACATGACTGCTATGTGTATA  
TATGATTTTATTTATAAGAAATAAATATTACATACCAGAAATTTACAGTTTTGTCTCTA

Table 1

ACTCTTTGGAATGCTAAAGGACAGACACTTGTNTTTTTAAATACCCCCATTGTACCTGCC  
CG

Sequence 2841

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNACAACCTC  
CTTAAAAAGGTAAAAGCCATCGCTTGAGCCAGGGAGGTTGATGCTGCAGTGAGTCATGAT  
TGCACCACTGCACTCCAGCCTAGGTGACANAGCCAGGCCCTGTCTTAAAGAGGAAAAACC  
ATTCTAGCTCACGGGGCCACATGCCATANTTTGCTGACCCCTGAATTCAACCTTTNTGC  
TTTTCTGCAAGCTGCCTCTCTCTCGAAATGTTTTGACATCTAGCTTGCTGACACCTTTGA  
TTCAAGCCTGGCGCAGCGGGACTGGCTGANCTCACCTGCCCGGGCGGCCGCTCTAAAAC  
AGTG

Sequence 2842

GGCGAATTGGAGCTCCCCGCGNGGCGGCCCGAGGTACCACGATAAGANGCANGCCAAAG  
TATTGTCATGAAAGGTAGGGAANGAGCATGGNGAGGCCTCAGTGGAAGGTACAACCGC

Sequence 2843

AGGTACTGGAGGTTGGCTGTGGTGTGGGAAACACAGTCTTTCCAATTTTACAAACGAACA  
ATGACCCAGGACTCTTTGTTTATTGCTGTGATTTTTCTTCCACAGCTATAGAAGTGGTCC  
AGACAAATTCANAATATGATCCTTCTCGGTGTTTTGCCCTTTGTTACGACCTGTGTGATG  
AAGAGAAGAGTTACCCAGTGCCCAAGGGCAGTCTTGATATTATCATTCTCATATTTGTTT  
TTTCAGCAATTGTTCCAGACAAGATGCAGAAGGCTATCAACAGGCTGAGCAGGCTTCTGA  
AACCTGGCGGGATGATGCTTCTGCGAGATTA

Sequence 2844

CCGGGCAGGTACTAGAGGTAAATTTTTAATAACATACTAATGTGAAATGGTATCTGGTTT  
TTATTCAGACTTTTTGTGAGCATATTCTTATAGACACTAGAAATAAATACATAGAAGGAG  
ACTTTGAGCACAAGGGAGAAGAGAGTTATTAGCACTCCTGAGGCCTCTGGAATGCTGCTT  
TTCTATCCAGGTATCTTGCTTGCTACCAGCAGAATTGACTGGTATTGGTTCTCACTGGCC  
AGGGAGCCTCTGCTCTGTTCCCTGGAATATAAGGCTTTTATTTCAGGAGCAAATCATTGATA  
GTAACCTTGCTTTATCTAGCCATTGACTTCAGCAAA

Sequence 2845

GTGGCGGCCGAGGTACGCGGGGATTGTGTGCAAAATCAGAGAGGGGTGCAAGATCCTGAT  
TTTTCAGGAGTTCAAGCGACAATGGCAGCCCAATACGGCAGTNTGAGCTTCAACCCCAGC  
ACACCAGGGGCCAGTTTGGTGAGAGGGCATTGAGTCTCCCGAGCAGGCTGCAGGGAG  
GGCCTGGAAGGCAAGAGCCCANAAATCCCAATTGAGAATTGTGTTAGTGGGTAAACCG  
GAGCAGGAAAAAGTGCAACAGGAAACAGCATCCTTGCCCGGAAAGTGTTCATTCTGGCA  
CTGCAGCAAAATCCATTACCAAGAAGTGTGAGAAACGACAGCAGCTCATGGAAGGAAACAG  
AACTTGTCGTAGTTGACACACCAGGCATTTTCGACACAGAGGTGCCCAATGCTGAAACGT  
CCAAGGAGATTATTCGCTGCATTCTTCTGACCTCCCGAGGGCCTCATGCTCTACTTCTGG  
TGGTTCCACTGGGCCGTTACACTTGAGGAAAGAGCACAAAGCCACAGAGAAAGATCCTGAA  
AATGTTTGGAGAGAGGGCTAGAAGTTCATGATTCTCATATTCACCCG

Sequence 2846

CCCGGGCAGGTACTTTGGGAGGCCAAGGCAGGTGGATCAACTGAGGTCAGGAGTTTGAGA  
CCAGCCTAGCTAATGTAGTGAAATCCTGTCTCTACTAAAAATNCNAAAATNNGCTGNGTG  
NNGTGGTGCATGCCTGTAATCTCAGCTACTCAGGAGGCTGANGCAGGAGAATTACTGGAA  
CTCAAGAGGCAGAGACTGCAGTGAGCCAAGATCGTGCCATGGCACTCCTGCCTGGACAAC  
AGAGCAAGACTCCATCCTTAAGCTCCCTGACTTGCTGCTCGTNCCTTTCTGGCAAAATC  
TCATCTTGGATGAGCCCCGACTTCGTGTTTGTCTCAATGACACCACTCACCTGAACCANAA  
AAAAAANCAAAAAGTGGTCAGAAGATATCATCATAAATTCAAATTATTACATAAAAAA  
TT

Sequence 2847

CCGCGGTGGCTCTGTAATGCGGCGTAAGAAGAAACTGGCTCCCAACAGAAGCAGAAAAG

Table 1

AGAAGCGAAAAGCAATAATACAGACTGTCACCTCTAGGGTTTATGCTGTCACTAGGATAC  
ATCTTTAGCATTCTACTCTGCTTAGAAATAAGCACAAGAAGATAAAGTATTATGGAAAG  
CAATTGCCCTATTGATTATTTCTAGGTGTCTAAATCACAATCATTTAAGCTAATTATAC  
ACCAGCATATGATATCTAACCAGAGAAGAAAGGTCTTACCCACGTGTGCTCAGAATCATG  
CTGCTATGAAATGCCCGAGTTTGGGTTCCCTTTTATAAGTAAGCTCTGTAATGCCAACT  
TCTTTTCTTTATACATAGTGAGGGTAATCACAGGGAGTCAGAGCTTAGGAAATAATCCAC  
AACTTTAGTATCCTCTTCAAATGTCTTGCTTTATGGTCTTGCTATAAGCCAGGATACTC  
CAAAATTTCTTTAATCAAGACTTGTTTCTTAAATATCACCTAAGTTTATTGNTTCTT  
ACCATTCCTCTTTAAAGAGGATCTTCTAATAATTCTT

Sequence 2848

TATANGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTIONGCANNTNCTNTTTNT  
TTNTTNNCTCNCNTNTGGGAATATCTNGAATTTAACTAGTAATTCAGCTCCTCTTCAGC  
ACTCACAATATANTCTGTTGCCAATGCCTGATGANACACATAGCTNATGACCATNGCACT  
TCTCTTTTTTCCATGGTTCGCNTTNAGGAGGTAATTTNCTTCANCNACTANAGGATNTC  
CTTCCTNANCAATTNAAAGAAATATTCGGTCAANTGATTTTT

Sequence 2849

CGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTIONGGATTTTTTTTTNTTTTT  
TTCCTATTGATGTNATNTTATTGCCGNCGTAAATAAGGAGNAGGTAACCATTTTGTGCT  
TTAACAAGTGAGGCACAGNTTAAAGTTTTAAACAGCAAT

Sequence 2850

CTATAGGGCGAATGNAGCTCCCCGCGGTGGCGGCCGAGGNACTTTATTTTTTTTTTTTT  
TTTTTTTTTTTTGGAGAAGGAGTTTCGCTNTTGTGCCCAGGCTGGAGTGCAATGGCGCG  
ATCTNTGCTCACTGTAACCTCCGCCTCCTGGGCTCAAGCAATTTTTNTGCCTCAGCCTCC  
TGAGTAGCTGGGATTACAGGCGTGTGCCACCACTCCCGGATAATTTNTTTGTATTTT  
AGTANAAATGGGGTTTTACCATGTTGGTCAGGCTGGTCTCNAACTCCTGACCTCACTGA  
TCCACCTGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGTGTGAGCTACTGTGCCTGGCC  
CGAAGATTTCATATTTATAAGAAGAGAGAATAATNTCTTTAAACCAAAGTTTAAATAT  
CAGGAGAAAACATAATAAAGCATCATTATGAAAGTATCTAAATCTTTCATTTTAAAT

Sequence 2851

CCGCGGTGGCGGCCGCGCCGGGCAGGTACCAAAGAGGGCATAATAATCAGTCTCACAGTAG  
GGTTCACCATCCTCCAAGTAAAAACATTGTTCCGAATGGGCTTCCACAGGCTACACAC  
ACAAAACAGGAAACATGCCAAGTTTGTTCACGCATTGATGACTTCTCCAAGGATCTTC  
CTTTGGCATCGACCACATTCAGGGGCAAAGAATTTCTCATAGCACAGCTCACAATACAGG  
GCTCCTTTCTCCTCTACAAATCCAATGTAGGCCATTGTATTTTGCAGTGAGCGCAGTTG  
AATTCCTTCTGGGTGCCAAGATTTCCCCAGTGCCACTAAGAATGGTCCTCTGACAGAAGAA  
AAAGAGGCCAACTAAGTTTGAGAATAAAATTTCTAGAGTTAGCCTGGATATGGACCTCTT  
TTATGCAATGTCCAACCAATTAAATACTTGCTCAATTTTCTTCTTAAGGACTGAACCTCA  
TGGGTGTTGGGTGTTGTAAATTCAGAGGGACTCTGCATTGATGTCCCCGCGTACCTNG  
GNCGCTCTAGAACTAAGTGGAT

Sequence 2852

AATGCGGCCGTAAGAAGAAAAGTGGCTCCCAACAGAAGCAGAAAAGAGAAGCGAAAAGCA  
ATAATACAGACTGTCACCTCTAGGGTTTATGCTGTCACTAGGATACATCTTTAGCATTCT  
ACTCTGCTTAGAAATAAGCACAAGAAGATAAAGTATTATGGAAAGCAATTGCCCTATTG  
ATTATTTCTAGGTGTCTAAATCACAATCATTTAAGCTAATTATACACCAGCATATGATA  
TCTAACCAGAGAAGAAAGGTCTTACCCACGTGTGCTCAGAATCATGCTGCTATGAAATGC  
CCGAGTTTGGGTTCCCTTTTATAAGTAAGCTCTGTAATGCCCAAACCTCTTTCTTTATA  
CATAGTGAGGGTAATCACAGGGAGTCAGAGCTTAGGAAATAATNCACAACTTTAGTATCC  
TCTTCAAATGTCTTGCTTTATGGTCTTGCTATAAGCCAGGATACTCCAAAATTTCTTTT  
AATCAGACTTGTTTCTTAAATATCACCTAAGTTNTATTGNTTCTTACCATT

Table 1

## Sequence 2853

CCGCGGTGGCGGCCCGCCCGGGCAGGTACCAAATATTAGAAAAACAAACAAAAACGGAA  
ACAATCCCTAGTAGCATTCCCTTGGCGTGCAAAGTCAGCAGGAAATGATTATCCATTGACA  
GTTTTCATGATAAGTCTTGGAAGCATTCAAAAAGCAGAGGGAATCATCGGGGATTGTTCA  
GATTAGGTTCTGTGGGATGCCTTGTCTTAATTTAACTCTGAGTTCAGGATTTCAATCC  
CTTTATAACATCTCTAACAGGGTCATGTTCAATTTAGTGCAAGTGCAAAATGAAATGAA  
ATGAAACCAACAAATACATTAGGAGCGAAGGCTGATCGTTAAGATCTGTAGTCCCCGCGT  
ACCTCGGCCGCGACCA

## Sequence 2854

CCGGGCAGGTACCTGTTACTGGATTTGGCTCCGGGGTCCCTGCAGGACCAGTTCATGCCTT  
GTCTCTCAGCCCCCTGCAAACAGCACAGAGCATCCAGTTCTGCCCTGGAGCCTGGCACTC  
CCACTGCACCTCTCAAGCCCCAAGTTTTCACTGGCAAGGGGACAGCATTATAGGACT  
CTTAAGTGCATCCCCCTAATCCTGTCAATGTCTCACCTGATTCCCTCGGGGTCCAGGACTT  
GGTGTTCAGTTGAGGTAGGGCTGGGCATCTGTTTCTGAAAANTGAGGTCTCTGGAAGT  
CT

## Sequence 2855

CCGCGGTGGCGGCCGAGGTACAAGTTCCTAGGCAGGTCCAGCACACTCATAATAAGTGT  
GATACAACAGGGTTTTAGTCATGATGTTCCCCGACCACGTAGTGTGGGTGCAGTGGAGGC  
ATCCCTCCCAGGGTTCTCCTTTTAACATGGATAAGGGGAGTAGCAAGAACAAAGTGATGA  
GTAGCATGTTCATACCCAGCATGGACAGAAAAGGCTTTTTCTGGGGGGAGAGGCTAAG  
CAAAGTGGCAGCTTAATAGCAAAGTAATTAATATGACAAGGAAAATTACTGGACTTCAGA  
TTTCTAACCACATTTACTTCCCTGATGATGACTCAAGCTT

## Sequence 2856

GAACCCACCGCGCGCGGCCCGCCCGGGCAGGGACGTNGNGAGGGGGNGAGNAAACCCGC  
GCAGGGGCTNCTGCTGAGGGGGCAGGGCGAGCTTGAGGAAACCGCAGAGAAGTTGTNCCC  
TCTAAGAAAGANAGAGATNAAANACAACACTACTNAAAAANATAGACAATAGGCNACTAAGA  
NANTGCTTATCNGGNAAGTTTNNAAACGGAANGGGAATAGCCCAAGANAANAAGAGAAAA  
ATGAAGACCCAGAAGAGTAGCAGGAGGAAGGAAAAAGANAAAAGGGGCACTAAACATGAC  
GGAGGGGCGAGANGAAGCANNCCACANGGAGAAAAAAGCATGNCAAAAGAAAATGGAGA  
GAAAGGACNACAGAGCCCCGAAAGAAANACCAANAGAAGGGCAACGCNCANAGANNAAAAG  
GAAGGNGACCGAAACAGCANNAAAGNCNNAGGGNAAAANGNGGGAGGCGACCAAAAAAATG  
GGAAGGCAACCNAGAAAAAGAGAACAAACCGAANGGGGAAGAAANAGACCNNGAAANCC  
ATGACGCAAGGGAGAAACCGCGANANNNAAGCCAGGGAANGNAANNACCAAANCNCGAN  
ACCAAAAGGGAAAGAAA

## Sequence 2857

AGCGCCCGCCCGGGCAGGTACGCGGGGACCTCAAGCCATGGGCCTCTGCGAAGCGCCGGC  
GTGCCACGGCTAAGAACTTCCTCTTTCTGCTCCCGGGAACGAAGGCTGTAGCAGAGAA  
GGCCTTCAAGTTTCGAGACCAAGTTCAGCCGCGAGCCCGAGCACTGGTGACCTTGAATTAA  
GTCTAATGTTGGGATTGGAAGACGCTTCAGACATCCGCTGCCGCCCTGGGCAAGCGACCA  
GCTCAAGGTTACCCACAGGGACGTGCTCTGGTCCCACGGTCCAGTGCTCTTTGTCTGGT  
TAGTTTTGTCAATTTGAAAATAGGAACAGTAGATAGTGGTAGGAAAGTGGTTGTGAAAC  
TTAATAGAAAGCTAAGCGCCTTGGTCGGGCGCAGTGGCATGTCACCCCTGCAATTCTATC  
ACTTTTGGAGGCTTGAGGCGGGCCGGATCGTTTGAACCCAGGAATCGAAACCAAGTTCTG  
GGCAATATGAAAACCCCATCTTTTGCAAATAAAGTACCTTCGGCCGCTTTTANNAACTAA  
GTGGGATNCCCCCGGGCTTGCAAGGAATTCNATATTAACCTTATTCGATACCGNCGAC  
CCTTCGANGGGGGGG

## Sequence 2858

CCGGGCAGGTACCAGGCAGGATGGAGCAGGATGGTGTGAGATTTATCACACTACTCAGG  
ATAGTGCACAATCTAACACTTATGAATTGTTATTTCTAAAGTTTCCATTTAATATATT

Table 1

TGAAATGAAGTAGACCCTGTGTGTAGCTGAAACTTTGGAAAGGAAAACCTATGGATAAGGG  
GGACTACTAGAATACACTTCAATAAAATAGCATTTTAACAAAATCCTAGTGTCCTAGAG  
TAGTTCTCCATCTAGCTGTCCATCTTTCAAATGTGGAGAGAGGTGAGATGAGGGAAGAAG  
TTATGGTCAGAGAGGGGAGACAGGTGTGTGTGGTGTGGGGTGTGC

Sequence 2859

TAGGGCGAATTGGAGCTANNNGGAGCTNNACCGNGGNGCGGCCGAGGTACGCGGCTAAC  
AAGAATTCCTTNAACAGCAGAAATTAACGAAACAACAACCTCATCTACTGATTTTCTGGCT  
AGAGCTTATGGTGTGAAATGGCCAAAGAATTTGTTACATNAGCACCA

Sequence 2860

AATNTGGGGGAAGGCCCTACCCACCCCGCGGGNTGGGGCCGGGGGCCCCCGGGAAGGG  
GTAAACCTTTANNNTNTCCNTNCNTTTNNNNNTATNTNTNNATTTNTTTGGGGGAA  
AAATTGGTTNAAAAAANTCCTTTTTTTAATTTTAAAAANACCAAGGTTGTGGTTNCTT  
TTTTCCCCCACC GGGTAAAGGTAAAAAAGCCTTTTNGGNCCACCCANTTACCNAGG  
GNTTTTTTAAAAAATAAATTAATTCANCCCCCNCCCCATTTAAATTTTTAATTT  
ACCCCAANAAAAATTTTCCCTTCNTTTTAATTCAAAAACCTTNGCCAATTAACCTTAA  
AAAGGNTGGGTTTTNTNCAAAAAATTAACCCANAAATTTTTTTTTTTTCCCCC  
GNCTCAAATTAANAAAAAATAAACCNTGGGGGNGGGAAAAAATAAATTTNT  
TGGTATTATAAAAAATTAACAACCCANGGGGGGTTATNAAGGGGAAAGNNAAAAAA  
AGGGAAATTATTTTTTTTCCNTNAAAGGGGGGCCANAAAAATTTTAAACCTTTAAA  
NGGGGGGGAATTCCTCANTTTTTTTTGGGGGGGAAAAAATAAATTTTAAACCTTTAAA  
AAGNGTCTACCCCTTGGGNTGGGGGGGNAATTTAATTTTTTTTAAAAAATAAATTT  
TTNNAATCCCAANCCCAAGGGTTTANAAACCNAAGGGGNAATTCCTAATTGGGNC  
CTTTTTGGGGTTTTCCCCCTTAACCNACGGGTTAATTTTTGGGCCGGGGGGGCCCCC  
AANANAACCCNCTTTTTTAAAGGTTTGGGAAAAAAGGCCCTNNNAANNNNGGT  
NGGTTTTTTNGGGGGGGGNTGGGNAACCTTTTTT

Sequence 2861

CAAACCCCGGNCGGGGGTGGGGCCGGGGGCCNCGGAATTAACCCCTTCCAACCCCGGGT  
NGGGGGCCTTGGNCNTTGGATNCATNTNCNCGGGTGGGGGTNCNGGGGAATTGNTTC  
CCAAATTGGGAAAAAGGGGAAAGNGGTTCCNGNAATGGGAAAGNCNAAGGAATGGNCC  
TTNTNAAACCGGTTGGGCCAAGGAAACCAAAANGGAAAAACCAAGNCCAAAGGGCCCT  
TAACCTTTTTTGGTTGGGGGAAAAATTTGGGGGGAATTCCTCCCCCAAAAAACCAAA  
ATTGGGTTNCCAAAAAGGGAAACCAAGGNCCCCCGGTTCTNTTGGGTTGGGAACCAATTCA  
CCCCAACCCCTTCCGGATTGGGGGCCCTTCCAAGTAATTTGGGGGCCNAAGGNT  
TCCAACCCNTTTTCCAATTTTGGGGGCCCAAAATTTAANGGCCAAACCAAGGNCC  
CCAANTTCTCAAAGGGGGAAAAGGCCCTTTNCCTTTTNCAAAAGGNCCGGGCCAAATT  
TCCTTTCCGGGGGGAAGGNCCCAAGGNTTTTCCAACCTTTGGGCCCCCCCAATTNG  
GGTTTTTCCCCCGGCCCGGGGGGAAAAANGGGGGNCCCCCTTTTNCCTTNCCTT  
AAACCTTGGGGGGTTAAACCCCTTTNCGGGGGGCCCGGGGNCNTTCTTTAAGGGA  
AAAAANCCTTAAGGTTTGGGGGGAATTTCCCCCCCCCGGGGGGCTTTGGGCNCAA  
GGGGGNAAAAATTTTCCGGAATTTAANTCCAAAAAGGCCTTTTAAATTTCCGNGAAT  
TTAACCCCGGGTTTCNGGGAANCCNTTTTTTAAAGGGGGGGGGGGGGGGGGGGCCCCC

0

Sequence 2862

GGNCCGNAATTGGTGTAGACTNCCACCGNCGGTGGCGNGCACCGNAGTGNTACNCCGNGG  
AAANNGTNGCTNCGTGNNNNNTGTGNAGNGTCNGCTCNTTGTCTCAATTGCGTTAGGAAT  
GGGGACACTGCTTGGCGAGCCANGTCNCAAGGCACCCAATTTCAATGTAGTCTCACAAN  
CACCGATCGCTCTCTCNAAGAACCGTGGGGATGGGGNTNCCCTTTCANGCNCTAGGTG  
GNGNAATNCGCCANATAANCTTCNTNTATCNTGTTNGAATTGACTAACNACNACNAAA  
AACCGGCCATAGTGATAGTCGATNTAAANGGGTCTTTCATAGAGACACNAAATGTCTCC

Table 1

CTTTGGGACCGCTTCACTCGCCCCGTGNCCTTTCCCTTTGACCCACAGGAGGGATGTGTAG  
GATTTTTNAAAGTAAAAAGGTTGTCAGGCACAACTTTTTCCAATTCAGTACGANTTGCT  
TACCAACTGGCGGAAGCNGCCTTTCAATTAAGTNAAAGCCTTAATGTTTCGGTGTAGTT  
GCACACTCNTCTGTTGAGTCATTTGNTCTAAGGAGCAAAAAAATTNATTGTAATANTNT  
CCCATAAGTTCCCTTCTNAATNACAGCAATTNAACTCTTGTNGGCCNAAANCNCTTNNTT  
TTAAGGGGGGGGTNGTNGTGGGGGTCCCCCCCCNTGGTTTTAAANCNCCCCAAANTCC  
C

## Sequence 2863

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCATGGTACGCGGGGGCGGGCGGC  
GGCGGAGGTTGCAGTGAGCCAAGATCGCGCCATTGCACTCCAGCCTGGGGGACAAGAGTG  
AGACTTAGTCTCAAAAAAAAAAAGAAAAAAAAAATCAGGGATATAGTTCATATCCCACT  
TCTTTGTTTACACCGATGTCCCTGAATATCAGCCTGTAGCTAATGGACTTGGGATTTCTG  
GTCTAAGTGGGCCTCCTGGGGATGGGGTGGTACCTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
GCGGTACCCAGCTTTTTGTTCCCTTTTAGTGGAGGGGTAA

## Sequence 2864

CGNCGNGTNGGGCGGGNCCCGAAGGGTAACCTTTANCAGGGGGGAACNCGCTCAGGGGG  
GGCCCCCTGTAGNAAATCCGGTNAATCCCTGNAGGANCCCTCCTTGNAAAAAAGCCA  
NGTTCNNAAGGGGTTTTG

## Sequence 2865

TATTGTTTTAGTCCAAAGATACCCCTGGCACAAGCGACANTAATATTACAGGGACATTAA  
ATTAAGGAAAGAACCAACTGATNTGTGTCTATGAGAGAAGANCTTCNGGGTGAGGAAGTG  
GGAACAAAGGAGGAAGACNCTNTAGCAAGCCCTGGGGCCNCCTTTATTGAC

## Sequence 2866

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGAGCAGAGG  
AAACATCCTGTCCAATTCTAGGTTTTCTCCCTTGGCCTCCTTTCCCCAGCATTGTCTAC  
CCTGGCCCACTTCTGCAATTCTCCCATGCCCTGCTATTTCTGATTCTTTGCTTCTCCTA  
GCGAGATACTTTCTTATATGATAGCTGCTGAGAAGTTTCCAGAACTGCTAGAGGAAAA  
GAAGTGGGGAATTTAGGAAATATCCCTCACTGACCTAACTCCATTATCTTCACTCTTTCA  
TTCTTCTGCCACCTCATGCCATTCTTTACTGTCTAGCATGCTGAAAGAAGGAAGTG  
ATCTAAATGCCAGCGTGTTCAAGTGGTAAATATTAGTTGGTGCAAAAGAAAAACCATGATT

## Sequence 2867

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGTGAGT  
TGAAATGTTCTGTCAAATGTGTCTCACATCTACACGTGGCTTGGAGGCTTTTATGGGGCC  
CTGTCCAGGTAGAAAAGAAATGGTATGTAGAGCTTAGATGTCCCTATTGTGACAGAGCCA  
TGGTGTGTTTGAATAATAAAACCAAAGAAACATAAAAAAAAAAAAAAAAAAAAAAAAAA  
ANTCCCTNGGCCNCTCTANAAGTAGAGGNTCCCCCGGNGTGGAGGAATTCGANTTCAATC  
TTANCCNTACCNCCACCTCGAGGG

## Sequence 2868

CGACTCACTATAGGGCCGAAATTGGAGCTCCACCCGCGGTGGGCGGCCCGAGGTACAGAG  
GGGTCTGTTTCTAAGTCTGGAACCTCAACACGAGGCTGGGATGCTTTCACAACTGTGCTC  
TCTCCCACTGTCCAGCCANAANAATGGTTGGTTCTTTCCACAGTGCTTTCCCCCCCCATN  
CCTTTTCAACACCTCCTTGTGNGAGNGGGAACCTATTNGGGGAACCGNNCCCAANAGA  
AGGGAAAAANCCNTGGGGGANTTCAACCTTTCTTGAACAAGGGGAAAAATCGGGGANCC  
AANAGTCCNACAAAGNCTTTGNCCNCCAAGGGAAANNCCCCANGGNTTTGGCCTTNCTTG  
GGG

## Sequence 2869

CCGCGGTGGCGGCCGAGGTACAATTTCTTTTGGTTCATTTTCAGATTACAGGCATTTTCCC

Table 1

CCTTGGCTCTCAATGCTGTTTGGGTTTCCAACAATTCAGCATTAGTGGGAAAAAGTGGGC  
CCTCATACACAAGCGTGTCAAGGCTGTCAGTGTGGTGCACGCTGGGGAAGAATTTACTT  
TGGAAGTAGAAAAGCCCAGCTTTTCTGGGACATCTTCTGTTATTGTTGATGTTTTTT  
TACCTTGTCATTTTGGTCTAAGGTTGCCATTGCTGCTAAAGGTTACCCGATTTCAAAGTC  
CAGNATACCAAGGCATGTGGGATATTGTTAGCCTACCGTTTTACTCACAGGCCAGGCGA  
ACTGGACAT

Sequence 2870

ATTGGAGCTCCACCCGCGGTGGCGGCCGAGGTACTTTATATAGATTTTCAAACAAAAGAT  
TGATTGTGCTTTTTGAATAAAAAAGATAGGGTATNTTCCAACTCACTGACTTAAACCTT  
GTGGAATACAGCACTTCTAACTAACAACNCACGTCAAAAAAGAACAANATTTGAATAAA  
TCCCCAGGTGGGGATGCCTCAAAAAATTNNTTCTTTTAAGAAANGGTTTTAAGGGATCT  
GGCTTAANTTTTCTGGCTTAATNTAATCATTAAATTTGGCCTTNGCGGCGNAAAAAAAAN  
AAGNAACCACAAGGAAGGCTTGGCCTTNGTTCNTTAAAAAATTTTNNNTCCNCAAAAAA  
CNTTCTCCNCCCTTCNCGNNAGNTTTTTCNAAGGCCAANTNGGCCAAACCANCCTTCCAA  
GAAAATTTTNGGAAAAAANAAAAAACNTTNNTTGNCNAAAGCCAAAAACNCCTTGNG  
TNACCNATTAANTTGGGGTTTAAANCCCCGAAGGTTNCGNAACCAATTTTTTGAATT  
TTAAGNCCAAGNGGCCATTTTT

Sequence 2871

CCGCGGTGGCGGCCGCGGCCGCGGCGAGGTACGAGAAGAAGGGGGCTGGAACAAATAAGTTACG  
GCTGATTTTACTCTGCAAAATATATAAGGGGTTTTCAAATTAATAACCATTCAAGGTCCC  
CAAACAGCCTAATCTTTGTCAATTGGTGCCAAATTATGCAAGGTGCTGCCAATTCTGGTT  
GTCTAACAAATCAAGACCAGTGTATGTTACTCCTCGGCTGAAGCCTGATTGATTCTGGTC  
ATTATATGGGCT

Sequence 2872

ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGTGGGACCTGCAATTACTAC  
GCAAACGCTTACAGCTTTTGGCTCGCCACCATAGAGAGGAGCGAGATGTTCAAGAAGCCT  
ACGCCGTCCACCTTGAAGGCAGGGGAGCTGCGCACGCACGTCAAGCGCTGCCAAGTCTGT  
ATGAGAAGAACATAATGAAGCCTGACTCAGCTAATGTCACAACATGGTGCTACTTCTTCT  
TCTTTTGTAAACAGCAACGAACCCTAGAAATATATCCTGTGTACCTGCCCCGGCGGGCCC  
GCTCTAGAACTAGTGGGATCCCCCGGGCTGCAAGGGAATTCGATATCAAAGGCTTATCGA  
TTACCCGTCGACCTCGAGGGGGGGGGCCCCGGTACCCAGCTTT

Sequence 2873

ATTTGGCTCATGGTTCTACAGGCTATATATGAAGCATAATGCTGACATCTGCTTCTGATG  
AGGACATCAGGAAGCTTAAATCATGTTGGAGGTTTAAGGGGAGCCAGCATATATCACGG  
NGAGAAAGGAGCANGAGACANAGGGGNTACCACACTCTTAAACAACCAGATTTTGCTT  
GAATTCAGAGCAAGAACCTNACTCACTACCACCAAAACAGCATGGAATCCATCTCATGAA  
GGTATTCTTCTTGTCATNGACTCAAACACCTCCCATTCAGCTTCCACCTT

Sequence 2874

CTAATACGACTCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCATTT  
TATTTAGTGTGTAGGAAATGTTGGGTTACTTCTTAAAAACGAAACCAAGAAATTCAA  
AGTCCCAAAGAAAGAAAGCAGGAAATAATAATTCTATAATCCAAAAACGTTGGGCGATCC  
TTCAGTTGGAGGAAGAGGGCGTCAGTTAAGTAGCTCACACAGTAGATATGGAGACACCAT  
ATGGAGATACCGGAGTTAAGTTTGGTGGATACTAGGAATTAAGTTCTCCACCTAAGGCAA  
TTAATTTTTCAGCCTTGAGAGATAAATTAGTAGGTTCTAGGAAAAAGGAAATNACAGTT  
GACTGGGGAGAAAGGTTGGGNAGGGGAGGGATGGGTGCCGTCATT

Sequence 2875

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGCGGGCAGGTACNCCACAANNCC  
AGNAGATTNGTCTCCTTNCCTGNGGCCTCATCTANCTTACTTATTCAGACTTTCTGGACA  
CAAGGGGTTTGTATCTTCATGAAANTTTAATNTGTGTNACGTTAGAAATGAANTTAGAA



Table 1

AAAGATGTTCTTGCTGTAAACACTGGGCNGNAGTANNNTCANAAGAAGACTGTGGTTCTT  
GGATG

Sequence 2876

CCGGGCAGGTACTTTTCCCAAATGCTATATTGCAATNGGACTGGAGGCTATAAGTGGTC  
TACNGCTCTGGCTCTAAGCATCACCTCNGAGGNTTGGAGCAGACCGTTTCTACCTGGG  
CCAGTGGCGGAGAAGGCCTTCGGGTAAGCCTCTTNCANCCTTCGGTTGGCCTTGGGTAA  
ATANTGGNACGCCTGATAGGACNGTTCCCTGGATTCAATNAGAAGTTTGGNNTTATNGT  
TTGGNACNCAAACCAGGATGGGCTCCTTTTGGGTAACCCCTTCGGTCCGCCTTCNTAGAAA  
ACTAAGTTGGGATACCCCCCGTGGNCGTNGCAANGTAAATATTCGNAATNAATTCCAAA  
ANCCTTTTATTCCGAAATAACCCCGGGTGCTGAACCNCTTCNNNAGNGGGGNGGGGNG  
GCCTCCCCGGAGGTTAACCCCCCAANGCCNTTTTTTTTGGGTNTTCCCCCTTTTTTA  
ANGGNTNGGAAGGGGGGGTTTTAA

Sequence 2877

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTTTTTTTTTTTT  
TTTTTTTTTTTTTTCATAGGTANAAGGAACCTGCCTTGAGTCTCAAATNAACTTGGG  
ACTTAGGACTTTTCAGNGGAGGCTGGAATGAATTAANACTTTNGGGGACTATTGGAAAGA  
NATGATTNTNTTTTGAATGTGANAANANCNTNCANTGTTGGGGGCTGGAGGGGAATGAT  
GTANTTNAAATATTTGACCCTTCCAATCTCATGTTGAAATGNGACCCCCAT

Sequence 2878

AGGTACGATTTTTAAATCTAGCACATTTAAACACTGTTAGTTCAACTTTCCTTATTN  
TGGAGAATTTTAGGAATACTCAATTTACATATCTGTATAAATCANGACAGAGCTCCTTTT  
AANNAGACTTTATAAATCTAATATTATCAATACCCCCCAAATTCANGGAAGNAACATT  
ATACAC

Sequence 2879

AATTGNAGCTCCACCGCGGTGGCGAGCGGCCGCCGGGCAGGTACTGAGTCAAGGACGTC  
TTTAACGTCATGGACGGCTCCTTTACCCACGCTTTCTAGATCTTCGACTGCATCTTTNN  
TAGTTTTCCGAGTTCCCCCACAAGCTTTTTGCTCCNGTCTAGGCCTTTTCCANAAAG  
GCNTTGGAACTNCTTGCTTTCCTNTGGCTTATGGTTGCCTGTTANTGGGCCTTAACCC  
GTGGTCTTTCAACCCTTGCNATTTTTCTTTNTTCGAAGCCTTGACTTGGAATTGCCTT  
TTCATTGGGGNANAGGGNGANTTTCCCCCCCCGAAT

Sequence 2880

TAAGCNGTGTGCGCCTTTCTCATAAGCCTCACCGCCTGGTAGGGTTATCTCAANTTTCTN  
GCTGGTAAGGATACCGTATCCGCTTCNCAAAGNCCTGNGGACNTGGTGNTGTCACTCAAN  
CCCCCCCCCGCTTTCANGCCCNCGAACNCGCTTGTCGGCCCTTTATTNNCGGGTAACTT  
AATACGTNCTTTGAAGTTTCCCAACNCCCGNGATATAGGNACACCGAA

Sequence 2881

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACGCGGGATTGACATCC  
CACACTACCTGATTTGATACACTAAGAAGGGCTTATCATTTCTGTGGTACTCTTGCCAA  
CAATGCACGTGTAACATTTATTCATTGAAACACATTAGGCAGAATTGCAGGACATTCTTC  
AAAATAGCTGTCCAATACTCTTCAAAGTGTCAGGTCCTGGAAGACAAAGAGATACTGAG  
GAACCATCACAGAGTGGGAGAGGACATAGAGTGATAAAAACTAACTGTGATGTGGAATCC  
TACATTGGATCATGGACCAGAAAGACAGCACTGATGGGAAGACTGATGAAATCTGAATAA  
GTCTGTANTTTGGTTTAAAG

Sequence 2882

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACNCGGGGAGGATNAACAC  
GAANCNGATNAACCTCANAAATCCTGTCTGGCTGNCAGATTNCAAGTAAAAAAAAAAAA  
GGTGGGTTGGGGGACCCCTTTCTTTNTAGTTGCTTNAAGGAAAATTAATTATACTTTT  
TTTTNGTTTCNGGTCGAAATTTTATGANATATCTCTCACTTGNCCTTCCACTTTGAACCGG  
TCAAAGCTCATAGCTGCCAGCTCTGAATGAGGAGGGGAGAAGCCCTGGGTCTTCTTTG

Table 1

AA

Sequence 2883

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAAGACTAT  
TG TAGAGACTATCCGGGTTAGTTTGCAAGGGGAGCCAATGATGAGTAATTTGAAAGAAAT  
TCACCTGGTGAGCAATGAGGACCCTACTGTTGCTGCCTTTAAAGCTGCTTCAGAATTCAT  
CCTAGGGAAGAGTGAGCTGGGACAAGAAACCACCCCTTCTTTCAATGCAATGGTCGTGAA  
CAACCTGACCCTCCAGATTGTCCAGGGCCACATTGAATGGCAGACGGCAGATGTAATTGT  
TAATTCTGTAAACCCACATGATATTACAGTTGGACCTGTGGCAAAGTCAATTCTACAACA  
AGCAGGAGTTGAAATGAAATCGGAATTTCTTGCCACAAAGGCTAAACAGTT

Sequence 2884

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGACTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTGAGAGGAAAACCCGGTAATGATGTCGGGTTGAGGGATAGGAGGAGAATG  
GGGGATAGGTGTATGAAC

Sequence 2885

CCGCGGTGGCAGCTCTAACGCTGTGGAAGCCTTAATTA AAAAGGGTGCAGACCTAAACCT  
TG TAGATTCTCTTGATACAATGCCTTACATTATTCAAACTCTCAGAAAATGCAGGAAT  
TCAAAGCCTTCTATTATCAAAAATCTCTCAGGATGCTGATTTAAAGACCCCAACAAAACC  
AAAGCAGTTGAGTGATGTCTCTTCCCAAGATCAATAACTTCGACTCCACTATCGGGAAA  
GGAATCGGCATTTTTTGCTGAACCACCCTCAAGGCTGAGATCAGTTCTATACGAGAAAA  
CAAAGACAGACTAAGTGGACAGTACCT

Sequence 2886

AGACCAAGACCGAGACTTGGAGACCTGATTGAGATTTCTCGCTTTGGCTATGCACACTGG  
GCCGTCTACGTGGGAGATGGCTATGTGGTCCATCTGGCTCCGGCAAGTGAAATTGCTGGA  
GCTGGTGCGGCCAGTGTCTGTCTGCCCTGACCAACAAAGCCATAGTGAAGAAGGAAGT  
CTGTCTGTGGTGGCTGGGGGAGACA ACTACAGGGTCAATAACAAGCACGATGACAGATAC  
ACACCACTGCCTTCCAACAAAATCGTCAAGCGGGCAGAGGAGTTGGTGGGGCAGGAGTTG  
CCTTATTCGCTGACCAGTGACA ACTGCGAGCACTTCGTGAACC

Sequence 2887

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTT  
TTTTTTTTTTTTTTTTNGCTCCAATAAGTTAANAATTTTAGTTCACTGGAAAAACAGA  
TCTTTGATATNTGGA CTATTTCAGCATTTTCTATGTCTGNNGGGGAACAGGCCCCCAAATC  
TGGCCATAAACAAAATCTNTGCAGCACTGNGACATGTTTCGNGATGGCCATGATGTCCACN  
CTGAAAGTTGNGGGTTTATTANAATGAGGGCA

Sequence 2888

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTACGCTGCATCCTTTTC  
TATGCTCTCCCTGCTGGTGATAATGGGAGATACAGACAGTAAAACGGACAGCTCATTCAT  
AATGGACTCGGACCCTCGACGCTGCATGAGGCACCACTATGTGGATTCTATCAGTCACCC  
ATTGTACCTGCCCG

Sequence 2889

AATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGCCTTGGNATTGNNGAATGAN  
CAANCATTGANAGCACATGAGATACTCCCATCAGAATCCATACACANGGACTACTGAAGA  
AAGTCCTTGGGAT

Sequence 2890

CCGCGGTGGCGGCCGAGGTACTTTGCACCAACTGTATCTTCAGATACACAGCAAGTTTCC  
TCCAAGCCTTTATGCTACCAGGATTTCTAAAGCACACCAAGAGGAAATAGCAGGTGCTTT  
CCTAGTGGACACTGGGATCCACTTATCAAGTCAGCTGGCTTCACATTTNAAGCCTTTCAT  
GCANGGTGGTTTTGGACAGTA

Sequence 2891

AATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGATTCCACCAAAGTGA

Table 1

TTCTAAATCCCTACCACGTTTTTAAAGTTTTCTTTAAGCTTGTTAAGAAATAGTAAGAG  
AAGGGGCTTCCTTTTCGATCCGCCATCTGCGGTGGAGCCGCCACCAAAATGCAGATTTCC  
ATAAAAACCCCTTACGGGGAAGACCATCACCTCAAGGTTGAACCCTTGGATATGATAGAA  
AATGTAAAGGCCAAGATCCAGGATAAGGAAGGAATTCCTCCTGATCAGCAAAGACTGATC  
TTTGCTGGCAAGCAACTGGAAGATGGGATGTACCTCGGCCGCTCTAGAAGTGGTGGATC  
CCCCGG

Sequence 2892

NCCGCGGTGGCGGCCGCCGGGCATGGTACGCGGGGCACAATGAAATCAATNCTCAGAGA  
AGGCAGATAATTCTCCACGAAGCCAGAAAACCTAATAATGAACAACCTGGGTGAAATGTN  
CCACCAGACGGTGTGATATTTANTNGCCCANAAAGCTGCCAAGGGGTTGAATGACNCTAT  
CTGAAGATNTGANCCAGTTTGCTCTCCATAGGGAGGATTCATCAACAGGAAACAGATGC  
C

Sequence 2893

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTAGAAGACAATGCCGAGGT  
GCTGGTGACCCTGGGGGTCTGAGTGGATGATTGGGGCTGCTGCGCTCAGAGGCCTGCCTC  
CCTGCCTTCCAATGCATATAACCCACACCCCANCCAATGAAGACGAGAGGCAGCGTGAA  
CAAAGTCATTTAGAAAGCCCCGAGGAAGTGTAACAAAAGAGAAAGCATGAATGGAGTG  
CCTGAGAGACAAGTGTGCTGCTGACTTTTTCTTTTTTTTTTTAGTAGATTAATGAATG  
ACTCACTTACTTACTTGAAATATTAGGAAGTGAAGTAAAGGCAACTCCT

Sequence 2894

GGCGGCCGAGGTACGCGGGGGAGTCCTGAGCTGCGTCCCGGAGCCACGGTGGTCATGGT  
TGCCAGAGCGCTCTGCATGCTGGGGCTGGTCTGGCCTTGCTGTCCTCCAGCTCTGCTGA  
GGAGTACTGTGGCGCTCCGTGAAATTAGACGTTATCAGAAGTCCACTGAAGTCTGATTC  
GCAAAGTTCCTTCCAGCGTCTGGTGCGAGAAATTGCTCAGGACTTTAAACAAGATCTG  
CGCTTNCAGAGCGCAGCTATCGGTGCTTTGCAGGAGGCAAGTGAGGCCTATCTGGTTGGA  
CTTTTGAAGACACCAACCTGTGTGCTATCCATGCCAAAACGTGTAACAANTATGCCAAA  
AAGACATCCAAGCTAGCACGCCGCATACGTGGAGAAACGTGCTTAAANAATCCACTNTTG  
AATGGGGAAACAT

Sequence 2895

CCGCGGTGGCGGCCGAGGTACGCGGGAAGAACTGAAATTTTTAATTAAATTTATTTCCC  
CTATTAGGCTGGGCGCAGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGCC  
GGCGGATCACCTGAGGTGAGGATTCGAGACCAGCCTGGTCAACATGGTGAACTCTGTC  
TCTGCTAAAAATACAAAAATTAGCCAGGCCTGGTGGCACACGCCTGTAATCCCGGCTACT  
CGGGAGGCTGAGGCAGGAGAATCACTTGAACCCAGGAGGCAGAGGTTACAGTGAGCCGAG  
ATTGCGCCCTGCACTCCAGCCTGGGTGACAGACAAGACTGTCTCAAAAAAAAAAAAAAAT  
TATTTCCCTATTTACTATTTTAAATTCCTAATCTGTATGATTTAGAATTTCCATGCATT  
AAAAGAAACAGCAATGTTTTAAGAACAAGGGAAT

Sequence 2896

CGAGGTACCTGTTACGAACTGAATGTTTATGTCCCCCAGTCAGCAATGTGATGGTGT  
GGAGGTGGAGCCTTCAGAAGGTAATTAATGCCCTTGTAAGAAGAGGCCAGAGAGCTTGCG  
CACCTTCTTCTGCATGTGAGGAGCCAAGAAGCCGGCTGTCTGCAACCTGCAAGAGGACCC  
TCACTAGAAGCTAGCCATACTGGCATCCTCATCTTGGCTTTCCAACCTCCAGAACTGTGA  
GAAGTATATGTTTGTGGTTAGTCAATGGTCTATGGTAATTTTTTATAGCAAGTCCAG  
CCAAGACAGTGCCTCATTTACTACATACCATTTATATTATATAGGCTCCTTTTCAGAA  
ACCATGTTCAAATAAAGAGATAAGATACTGAAACACATAACACCTTCACTAGTTTTTTA  
AGTATACAAATATTGAGAAATAGTTTGTTATTAACATCTCATCCAAGAAATGCAGATTC  
ATGTTGGTTCTAATTTTTTATATTAAATTTGACAAAATGAAGAACTTAACACCATCCTAA  
ATTTTAGCTGCCCAAAAAAAAAAAAAAAAAAAGTCCCTGCCCGGGCGGGCCGNTTTTN  
AACTANTGGATC

Table 1

## Sequence 2897

CGAGGTACTTTTTTTTTTTTTTTTTTTTGGAAAAAATAAGAATAGTTGGAGAAT  
GTTAAACATTATTGAAAAACATATCGACTAAAAAGATAAAAACAATCCCAAATCACTT  
TAATACTTTAAATAAATTCACAATAGAATTCTACTCAGTGTTAAATACTGGAGAAGGCT  
GGGTGCAGTGGCTCATGACTGTAATCTCAATACTTTGGGAGCCTGAGACCGGAGGATTGC  
TTGAGCCCCAGGAATTCAGACCAGCCTCAGCAACATGGCAATACCCCATCTCTACAAAA  
AAATTTTAAAAATTAGCTGGGTACAGCTGGCACAGTGGCTCATGTCTGTAATCCAGCAC  
TTTGGGTGGCTGAGGTGGGTGGACCACTTGAGGTCAGTTCAAAGACCAGCCTGGCCAACA  
TGGTGAAACCTCATCTTCACTAAAAACAAAACAAAAAATTAGATGGGTNTGGTGATACAC  
ACCTGTAATCTCAACTACTCGGGAAGGCTGANGCCAGGANAATTGCTTTAACCTGAAAG  
GGCAANCTTGCANTGNAGTCAAAAATTGCCACCACTTCCCTTTNACCTTAGGGGCCNNA  
GNTANGNGAGACTCCNTCTTAAAAAAAAAAAAAAAAAAAAA

## Sequence 2898

CCGCGGTGGCGGCCCGAGGTACATGCTACACCACTTCTCCAGACTTGACCTCTATCAAAG  
GGCATTGTTGGTATGGCCCCGAGATGGGAGTAACCTCTCTTTTCAGCTGTGTCAAATCTTA  
CACCATGTTCTTTTGTCTTTTCTCATAATACAAGGCCAAGCACATCTGCAAAAAAGACA  
TTGCTGGAGGAGGTGCAAAGAGCTGGAACCAAGTCTCCAGTCTGGGAAAAGCAGTGGT  
ATGGAAGCAATGGAAGAGCATTTTGAAAATGCCATTCCACTGTTTTCTGGCCTTTAT  
GATTTCTGCTGAGAAATCCACTGTTAGTCTGATGGGGTCTCCTTCATAGCACCATGACC  
TGAAAGACCTTGTTGAAGGAAGACTCCATCTGATGACTCAGAGCAAGTATTTTTAGTGT  
GTTATTGTTATTAGCAGAAAGAGGGCCATAAAATACATGGGGCAAGATGAATATATCTTA  
GGCAAAAGAAGAAAATATTCAAATCTTATGTTATTTTATCTAATTATTTT

## Sequence 2899

CCGGGCAGGTACTAATTTACATTCCCACCAACAGCATATAAACATTAATTTTTATCACAT  
TCTTAAGTGTGTCTATTATTTTTGTCTTTTTTAAAGTATAATAATTTTTAAAAAGTAAA  
GAAGAAAAGAAAGAAAAAAATTGATAGGATCTTGCTTTGTCCCCAGGCAGGAATGCAA  
TGGCACTATCATAGCTTACTGCAGCCTTGAACCTTCTGGACCCAAGTGATCCTCCTGCCTC  
AGTCTCTTTGTAGCTGGAACCAGAAGTGTGTACCACTATGCCTGGCTAATATTTTTATT  
TTTTATTTTTGTAGAGACAGGGTCTTGTTATGTTGCCAGGCTGTTCTCAAACCTCCTAT  
CCTCAAGCCATCCTCCCATCTCAGCCACTCAACTTGCTGGAATTACCAGCGGAAGCCACT  
GTGCCAGCCCCAGACTCCCTTTTACCTAGTATATCATGTCTAATTTCTAACAAAAAATTA  
AAAAACATTGTAAGAGGAAAAAAGAAACCCTAAAAACAAACAGCAACAAAAACCCA  
AAACAACAAAAAGTTTCAAGAAACAGAGCTAGCTGACAGGAACTATATTCAGAAATGGGC  
AGGTATATTTAGAAATTATCGGATTGGTAATTTTAAACCAACTATGACTAATATGGGAAN  
GAGGGGATAATGGGAAAAAT

## Sequence 2900

CCGGGCAGGTACGTCCATCTTCCAGCTGCTTGCCAGCAAAGATCAGTCTCTGCTGATCAG  
GAGGAATTCCTTCTTATCCTGGATCTTGGCCTTTACATTTTCTATCGTATCCGAGGGTT  
CAACCTCGAGGGTGATGGTCTTCCCCGTAAGGGTTTTCACGAAAATCTGCATTTTGGTGG  
CGGCTCCACCGCAGATGGCGGATCGAAAAGCCCCGCGTACTCGCCAGTCCAGCCTGCTCCT  
GCACACACATTACCCACAGTCACAGTCGCCGTTACCTCCGCAGAGCAGCCCTTGTGTCT  
CACGCAGGAGAAATTGTCACACTGGCAATCCCGGTACCT

## Sequence 2901

CCGCGGTGGCGGCCGAGGTACGCGGGGAGTCTGAAAGGGTGGGCAATGTGCAGCTCTC  
CCTCAGGGTCTGTTGGATCTGGGTCCAACAGTCTGGCCTTTCAGCCTTCAGGCTGTTTTAG  
GCTTGAAGTTTCGTGTGGCTGATCAAAGAAAGAGGCATACGCAGATTTCTACAGAACT  
ACGATGTCATGAAAGATTTTGAGGAGATGAGGAAGGCTGGTATCTTTCAGAGTGAAAGT  
AATCTTGGAATATAAAGAATTTCTTCAGGTTGAATTACCTAGAAGTTTGTNACTGACTTG  
TGTTCTGAACTATGACACATGANTATGTGGGCTAANAAATAGNTCCTCTTGATAATAA

Table 1

ACAATTGNCNANTANTANANTTCAANNANAAANNGTACCTGCCCG

Sequence 2902

CCGCCCGGGCAGGTACGCGGGGAGATTTTGGATATCTCAATCTGCAGCCATTCTTCAGGT  
CGTAGCATTTGGAGCAAAAAAAAAAAAAAAAAAAGGAGTTTGCTTTTGTCGGGAGAT  
TGAAAGATGTTTTGTTCTTTCTTTGTAAAGGCCTTGGATATTGAAAAATACCAAGGCA  
GAACAGTTGGACAATCTATTCTTGAGCCAAATTTAATTATTCTATTTTGTAATCAGT  
CATTGGCTTCTTATCTGGATGAAGGCTTTTGGAGGAGAACCAAAACGACAAGTTCCAAGA  
AGAAGATGAAGCTCCGCGCTCCGCGCTTAGTCCCAACCTGCCAGGAAGAAGGGCCCGT  
GGGGCTTGGCCTGTGCCCGTCCACCAAGAGGCTGTGATGTGTCTCGAAACTCAGCAGCCCTC  
CCCATCCCAATCCAGGCAGCTTGTGTGTACCTCGGCGGTCTAGAAGTGGATCCC

Sequence 2903

CCGGGCAGGTA CTGTA AACTCTCAGTCTGAGACCGAAAGCCTCAAGACCTGGGGGGCCTCT  
GGTGTGTAAGTCCTGGAATCAAAGGCTAGTGAGCCTGGAGTTCTGATGCCATGGTGGC  
AGAAGTCTGTCCAGCTCTCAGAGAAAGACCAGCTTGCCCTTCTGTATCTGTTCTCTCTGG  
GCCCCTG GCTGATTGGATGGTGCCCATCAACAATGAGGGCAGATCTTCCCCACCTCATCC  
ACTCAGCTGACACATAATCTCTCTAGAAACACTCTGAGACGTGCCCCAAATAATGCT  
CTATTAGGTTTCTAGGTAATCTCTTAATCCAGTCATGTTGACACCTAAAATTAAGTCTAC  
AGGTCTACCCCTTGCAACTTGGCACCCATATGCATGTTTTTAANCCGATATTTTA

Sequence 2904

CCGGGCAGGTACGCGGGGGTGCCTGCCTACCAGACACCCATTCTTGCACGATCACCATT  
AAATTCTCTCTTCCATTGTTAAAAAAAANNNCAAAATAAAAAAAGTACCTTGCCGC  
TCTANAAC TAGT

Sequence 2905

TCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTATTTTGGGAGAGCC  
AAGTGGAACTCTTGAAGCAAAATAAGTGTTCACAGCCTTCACATCCTAACACTGTCAAT  
GAACTCTCTTAAGTTGAGTGAAGTGGAAAGCGTGCTGAGTTACTGAAGTGCCAGGCTTTTA  
ATCCAATCAGCTCACAACCTCTTCTGACTTTTGCAATATAGATTGTCAATAAAGGTTA  
GCTGTCCCTTGAATGCTCATGGCAAAGAAGGTACTTTTTTTTTTTTTTTTTTTGGAA  
ATGCTTATGTCTCCATTATTTTATTTTATTTTTTATAAAAAAGCAGGCATAAAATACA  
ATTACATTACTACGAAGATGCAACAAATTTTAAAAAAGAAAAAGGGGTGCAATTTTTTT  
CAGAGAGGACAGCTGATCAAATATTTATAATTTTCTAAACCATGCAGTTCATTACTTATT  
ACAATTNCAAAC:AAAACCTATTATTATGGGGATGGGAGTCAGGGAGAGG

Sequence 2906

GGAGCTCCCCGCGGTGGCCGGCCGCCGGGCAGGTACTTTTTTTTTTGNCTCACTCAAT  
TGGGCAATNAACATGGAGAGNCACNTNCTCTGATGGTATCTCNGANAATACTGGTTGTNG  
GACTGGCCAATA/3TGCCCTCGGGACTGGGNGCACCCTCAGGCTGCGGCAGTTGTCACAG  
CGCCAGCCCCCGCTGGCCCTCCAAAGCATGTGC

Sequence 2907

CCGCGGTGGCGGCCGAGGTACCCAAAGCCATATTTGTTAGAGTAATCAACCCATTGGTG  
ACCCACTGAATATGATGTGCTCAGCTGCTCTTTGGGAATGCAATCAGCTTCCGGCATGTTT  
TCCAGACATCCCGAAGAACCCTTGCTGTGTCTGCAACACTTCCCATGGTACAGATGGA  
TTCAGTTCAAACCTGGCTTTACTACCCCGGTACCTGCCCGGGCGGCCG

Sequence 2908

CCGGGCAGGTACCAATTAATGACAAGAGGTTAGATAGAAGTATGCTAGATGGCAAAGAGA  
AATATGTTTTGTGTCTTCAATTTTGCTAAAAATAACCCAGAACATGGATAATTCATTTAT  
TAATTGATTTTGGTAAGCCAAGTCCTATTTGGAGAAAATTAATAGTTTTTCTAAAAAAGA  
ATTTTCTCAATACACCTGGCTTGATACATTTTTCTCCTTCGAGTTCCTTTTTCTGGAG  
TTTAAACAACTGTGTTCTTACAAATAGATATATTGACTACCTCTCACTGATGTATGAT  
ATTAGTTTCTATTGCTTACTTTGATTTCTAATTTAGGATTACAAATTTAGCTGGAGAA

Table 1

CTATTTTTTAACCTGTTGCACCTAAACATGATTGAGCTAGAAGACAGTTTTACCATATGC  
ATGCATTTTCTCTGAGTTATATTTTAAATCTATACATTTCTNCTAAATATGGAGGAAAT  
CACTGGCATCAAATGCCAGTCTCAGACGGGAGACCTAAAGCCCATTCTNNGCTGGAGCT  
ACTTGGCTTTGCGACCCTATGGGGGAGGCATAAGTCCCTGGAGTTTGGGGTTGGNCTTT  
TTTGTAATATGGAGGGGTTGGCCTTAATCAGNGATTTTCATTAGCCTTAAAAATTTTTG  
GAAGAACNAGAACCTTTTTTTTTNAAAACCGGTTGGATGCCACCCTTTTTTTTT

Sequence 2909

CCGCGGTGGCGGCCGCCCGGGCAGGTACTIONTTTTTTTTTTTTTTTTTTTTTTTTTACAG  
TCTNATAGGTAGAAGGAACCTTGCCTTGAGTCTCANATGAGACTTGGGACTTAGGACTTTT  
CAGNGGAGGCTGGAATGAATTAAGACTTTTGGGACTATTGAAAGANATGATTATATT  
TGNAATGNGANAAGAGCATGCAATGTTGGGGCTGGAGGGGAATGATGTAATNTANATAT  
TTGACCCCTCCAAATNTCATGTTGAAATGNGACCCCCATTGTTNAAGGTGGAAGCTGATG  
GGAGGTGTTTGAGTCATGCAAGAAGATCTTCATGAATGGATTCATGCTGTTTTGGTGGNA  
GNGAGTGAGTTCTTGCTCTNAATTCAAGCAAAATCTGGTTGTTAAAGAGTGTGGAATGC  
CCCTCTGTCTCTAGCTCCTTTCTACCGNGATATATGCTGGCTCCCCTTAAAC

Sequence 2910

GACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGG  
AATCATTTTGTCTTCAACCCCATTTAGCCTGCCATTGAAATGCAAAAGTCTGTTCCAAAT  
AAAGCCTTGGAAATTGAAGAATGAACAAACATTGAGAGCAGATGAGATACTCCCATCAGAA  
TCCAAACAAAAGGACTATGAAGAAAGTTCTTGGGATTCTGAGAGCCTCTGTGAGACTGTT  
TCACAGAAGGATGTGTGTTTACCCAAGGCTACACATCAAAAAGAAATAGATAAAATAAAT  
GGAAATTAGAAGAGTCTCCTGATAATGATGGTTTTCTGAAGGCTCCCTGCAGAAATGAAA  
GTTTCTATTCCAATAAGCCTTAGAATTGATGGACATGCAAACTTTCAAAGCAGAGCCT  
TCCGAGAAGCCATCTGCCCTCGAGCCTGCCATTGAAATGCAAAAGTCTGTTCCAAATAAA  
GCCTTGAATTGAAGAATGAACAAACATTGAGAGCAGATCAGATGTTCCCTTCAGAAATCA  
AAACAAAAGAAGCTTGAAGAAATCTTGGGATTCTGAGAGTCTTCCGTGAGACTGTTTC  
ACAGAAGGATGTGTGGTGNACCTTGGCCCGCTCTAGAACTAGTGGGATNCCCCNGGCTGN  
ANGGAATTCGATATCAAGCCTTATCGGATACCGTCCGAACCTCGANGGGGGGG

Sequence 2911

CGAGGTACCGCGGGGAGAGGCCACTTCTTCCCCAATCCTTCCGTTTCAGCTGGGAGAAT  
GGGACAAGATTAGGTGCCCCCAATGGGGAGAGGGCGTGGATGCGGCTGGCTTCTGCTA  
TAAAAACACAGAGCAGCCTACCCTCTACCTGGTTGATCTGGTAGTGTCTTCTGCTATGGC  
GTGCAGGCAGAGAGGAGGCTCTTGGAGTCCCTCAGGCTGGTTCAATGCAGGCTGGAGCAC  
CTACAGGTGATTTCTCTCTTCTTGGCCCTTGTGACTTCAGGGAACCTCATAGATGTTTC  
TCAGTTGGTAAATCCTGCCTTTCCAGGCACTGTCACTTGCATGAAAGGGAAATAACAAG  
TGGAGTTCCTCAAGCAGTCTTGGCACCAAGAAATGGCATGCATCTGTGGTGGATCCTCTTG  
GTCTCGACATGCCCGAAGTGCATTTACATCCTGGGACCCAAAAAAGCTTACCCTGAGGG  
CTACCTATGATAACTGTACCTGCCCCGGCGGCCGNTCTAGAACTA

Sequence 2912

CCGCGGTGGCGGCCGAGGTACCTGTATCCCCAATAATACAGCCCCTGATGTAACATCAC  
TAAGGGTCTATAAGGCCTCACCCTCTAGGAAATGAACTAGCTGAAAATTCGGGAATGAA  
TGATCCCTTTACAGGTGTAATGGAAAAATGGTTTGGTAGATGGAAAGGACTAATGGCCT  
CTATTCTCACCTCCCTTGTGATCATAATAGGGGTGCTCATTCTCTTAGGGTGCTGTATTA  
TACCCTGTGTCTGCGGACTAGTTCAAAAGCTCATAGAAACAGCCCTTACCAAGACCTCCC  
ACAACCTCTCCCCACCCTATTAGATAAACGTTTATTTCTAAGCAACCAAGAAGAGCAGT  
GAAGCCAGATCCTGTTAGAAATATATGAAGAGGAAGGACTACAAAATCAAAAGGGGAAAA  
TTATTAGACAAAATGAGTTGCTCTACAAAGGTCCAACCTTCGTTGNCCTTTGTTCTGGAAC  
CTTGTTCTGTAACTGCCCTTNC CGCAAAACCTGCTTTCCCGCCGACCAAACTGCTC  
TTCATATCCTGNAATCCATACCCCTACTCTATTTGAAACTGCCAATCGGGAATCAAGCT

Table 1

TACATTGGGGGTGGGTCAACCCCNCCCCATGGAGGNAAAAAACCCNNAAGCCAAAGCT  
 TTTGATGCCATTAGGGGTAAAAANCCCTTTCTTNCCTGNCCAANGNGCTCTTGAAAT  
 GGNTACAGGCCAGCNAGCCCCCTTTGCANAAAATAAACCTTGNCTTTGTTGGAACAAA  
 AAAAAAA

Sequence 2913

ACTCACTATAGGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACAGA  
 AGGTAGATTTAGAGGTGAGGGGCAATAAGTAAATGACTCGCACAGATGGTGTTCATGCTC  
 AATGTTTCTCTTCTGAACAATTTTCAGATTTGGTGTTAAAGCACCTTCTGGCCAGGCGTG  
 GTGGTTTATGCCTGTAATCCCACACTTCGAGAGGCGGAGTCGGGTGGGGATTGCTTGAG  
 GCCAGGAGTTCAAGACTACCCTAGGCAACATAGTGAGATGCTCGTCTCTATTAATAAAAAA  
 AAAGAAAAAAAAGGGGACCCAAGGCCATATATCTGTTTCATTCTAGAACTCTCCACA  
 GTGTCAGATGAAGACTGCAATCCAGTGGTCCTACATTCACAGATAATTCCTAGCCTTTG  
 GTTAGTGAGGAGAATGGGATGGGAGGACACAAAATGAGGACTTTTTTGT

Sequence 2914

GGGNGATACATAAAGTTTTGCATTTTCCAATAAATGATGACTGTGATTCANNGAAATAT  
 GGCATATGTGTAATTAATAAACCACTTTTTATAAAAACTATCTTTGCTGCATGCTGCTCTA  
 TGACATTTTCTGTGTGTTATTTTATTNCTTTTCTTTTAAATGCTGGTCACTGCTACCCAT  
 TTAGNCAACTTGGACCACCCTCTAGAGGGGCTTNAACTGTTATTTTCAATACATTGTCAC  
 AGGGACAGAGGAGGGGTGTAGGGAACCTCTGTGACTAAAGAGTTTCCATAAATGGGTGGA  
 CCTCAGTTTACAAGCCTTAAGTTATTGGGCCAGGAGGGGGAACAGATCATGANTAGGAGA  
 GTGGAAAAGAA

Sequence 2915

AGGTACACTTCTCTTTCCCTGAATATGACTTGCCTCTGGTGAACAGAATTTTGCAGATGT  
 AGTTAAGCTCTAAATCAGTTAGTGTGGCTCATCAGTAGGGAAATTATCCTGAGTGAG  
 CCTGATATACACTGATATGACAGGCTATTCTTGCTGACTTGATGAAGCAAGCAGCCATGT  
 TGAGGAAATCCACATGGCTAAGAACTGTGACCAGCCTCTAGGAAGTGTAGGCAACATTTA  
 GGGCCTGAGATTACCCAGCTAAAAGTCAGGAGATAGGCTTGGGATTTNAGTCATACTGTC  
 AAAAAACATACATTTTGGCAGCAAACCTTNATGACCTTGAAGCAGACTCTTCCAGT  
 CAAGATTCCAAATGAAAATTCANCCCAGCTTGACA

Sequence 2916

CCGGGCAGGTACTTTTTTTTTTTTTNTTANAACTTTTTTTTTNNATTTTTTATNCCA  
 TNATTCCATCTTTTCTTCTTCCACTTGACCTGCGATTACCAACATTGGTCCAGACACC  
 ATGCATGTNAACNGGCTNNACCCCATCCATTGA<sup>1</sup>TTAA

Sequence 2917

CGGCCGCCCGGGCAGGTACTTGGTTAATCTAGCA<sup>2</sup>TTGTTAGCCAATGATGTCCTTTGGT  
 ATTCATCAAATTTACCACAGCATGGGGGGGCCTTTATATTCAGGTTTGGCCAAAGAGTTA  
 GCTTATCTGCTTGTGTGCTAGCAGGGCTGTTGCTGCCAAGGCCCTCAAACATGAGGGCC  
 AACACTTAGAAACCCTGTCTAATTGTTTAGAGAGATAGGCCACCAGCTTTGGCCAGTGTG  
 CCACAGTCTGGGTAAAACTATTAACATCATTTTCTGACACATATTGTGTAATA  
 AAAAAAAATTATAAAAAAGTACCT

Sequence 2918

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACGCGGGACATCA  
 TGTCTCTCTGAAGAACAGTTAAAGTGCTTTCTGGATGAATGCATACTTAAACAAAAATCC  
 ATCATTAACTTTCTCAGAAAGAAAAAAGGAAGACATTGAGGACGTAACACCTGTGTTT  
 CCCAGCTTTCCAGGTCCATCATCTCTAAATTGCTAAATGAATCAGAAACAAAGGTCCAG  
 AAACTGAGGTAGAAGATGCAGATATGCTTGAGAGTGAAGAATGTGAAGCTTCTAAAGGC  
 TACTATCTCACTAAAGCCTTGACTGGACATAACATGTCAGAAGCTCTTGCTCACTGAAGCA  
 GAGAATATGAAATGCCTTCAATTTTCCAAGGACGTTATTATTAGTGACACAAAAGACTAT  
 TTTATGTCTGAAGACTCTTGGCATTGGGAGA

Table 1

## Sequence 2919

TCCACCGCGGTGGCCCGGCCCGCCCGGGCAGGTACGCGGGAAGAAATGGAAATTCCTTG  
AAGCTGGATTTCCTCACTTGCTGCGGGTGTGTGCTTTGCTTAACATGTTAAACCTGCAGG  
CGTGGTGGCTCATGCCTGTAATCCCAACACTTCGGGAGGCTGAGGCAGGAGGATTGCTTG  
AGCCAGGAGTTCAAGACCACTCTGCACAACAAAAAACCCATCTCTACCAAAAAAAA  
AAAAGAAAAAAAANNNGTCCGCGGGGCTGACTGTTAAGGAAAGAGCACCCACATCTGCT  
CCTACTTAGCTTTTTTCTGTGGTTCTTACACAGTATTCTTTTTTCTTTCTTGAAAG  
AGACTCCTCCTTTCTTTCTTTCTTGAAAGAGTTTAAACAGATAAGATGGCAAAAGTG  
ACTGATCTCTACTCCCCCAGTTTGAATGGTAAAATTTGAATGGTAAATCCCATGAACAT  
ATATGGAAATGTCTTTATCCTACTT

## Sequence 2920

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGTGGGCGATCTGGGGGCCAGGT  
CGGGATGAGTATCGGCAGGACTACGATGCTGGGAGAGGAGGCTATGGAAACTGGCACAG  
AACCAGTGAGTGGTGAGAGCTCTGTCACTGACAAACACTCCTTTGGCCTGTTGAATTTGC  
TGAAGAACATCACCTAAAGTCTGCACACGAGCCATTTTTACCAAGATTTGATCAGTGTC  
TTTACTGAGCTGGAAGCCTCTGAAAGTTATTAAGGACAGAATCCAAAAGATGCCTTTA  
ATTCTTGTCTGAGAATCTTGGCCATGTGTGAGATTATCAGAACAATTTTGTACCAGGTC  
AGAAATTGTGTTCTTTGACAACAGATTGGATCTGTAATGTTGATTAGTCTTTAGCCATAA  
CCTACTACACTTTTAGAAAGACAGAAAAATGTAAAGAATTTGTTTTTACCATAATGAGTCT  
TAAGTAGGTTTCATGATCTACATTGNGGCCTGGGATTATTTTTTAATTTA

## Sequence 2921

CCGCGGTGGGCGGCCCGCCCGGGCAGGTACCCTTTCTGATTGTAGAGAACCCTGTTTCTGC  
AGGAAGCCTAGCTCCAAGCACGCAGTCTGTAGACATTTTTGCCTTTGCCCTTGAAATGCT  
TGCAAAATACTTTGTTAACAAAAGCTGCAAGAGAGAACATGCCGTGTGCCTTTAGTTAG  
CACAGCGGGCAGCCTCAGTGAAACTCTTAGGTTAAGCAGTTAAGTCCTGGAACCCAGAGC  
TGCTGTGTATTTTCGAGCGGGCAAGTTTATCTTTTGCTATACTTATTTCAATTCAATTAC  
ACCACGATTCAAATAATCCCCCTCTAAACCAAAAAGGAGGGAAACCGTCAACTCCATT  
GCAATTACTTATCTTCTCTCTATCTCTGGTATACGCCGGGGCATAGAATGCTCGTATA  
CATCTCTTTAACAACCACAAACCTTAAGCCATGTAGATGAAAGTTAGTGCATCAACGGGA  
TACAGTTCCATATTGCCTTAAACCTCCTTGGTTTAGACACACTAACATTATACCAATT  
GCAGATTATTCTGCAGAGANGGAATTGCATGTTGGGTTGGATATTTAGTATGAACTTTTT  
TCAGAATAATAATTTCTTAGTTATCAAAGTANGTTGGAAAACATTTGCAAGACTATGA  
AACATAGAATTGCTGGTTTTATTTTAACTGGCAGAATGGGGAATTTCACTGGCCTTAN  
ATTAATTTAAT

## Sequence 2922

TNTAACTCCCGGCGAATNGGTTTTNCAACGCGGTGGCGGCCCGCCCGGGCAGGTACAGTN  
GCACAATCATAGCTTAGTGNAGCCTCATTCTTTGGGCACAAGCGCTCCTCAGCCTCCCT  
CCTCANCTCCAGTTGCTGGAACCTTACAGGTGCACCACCATAACCAGCTAGTTTATTTT  
TTGTAGAGACAGAAGTCTCACTTTTTTCTAGACTGGTCTGAAATAGACCATTCTATTT  
GCTAGAATGGTCTCAAACCATCCTTCTGCCTCAGCCTCCCAAATTGCTGGAATNTCAGGC  
ATAATTCATCATGCCTAGCCATTTCTTTTTCTGCTGCATTGCAGAGTTAAGAACCAATT  
TCATTTGTCCTGCACTGAGAATGTGCATTCCCAGCAGATCATGGTTGAGCTCAAGCACAC  
CTGCAACTCAGCCAGCCTCTTTGAAGGGTGCACAAGTTACTAACTGTCAACGTTGCACAA  
GCCACCTTTAGCAGGTATGTTCAAGAACTTACATTCCCACCTTTCTAAACAGCTCACA  
GTAACAAGAAGAACGGGATTTAACTTTTGACATGCACACTCATGAAAACCAATGGATTT  
TGGAAAAGCCAAAATTGTTGAAAAGAATAAGGGGGG

## Sequence 2923

TAAACTCCCGGCGAATGGTTNTCAANGCGGTNCCGGCCCGCCCGGGCAGGTACGCNNTCAA  
AGTTAATGGGGTGGTTTATCTCACANNTTNAAGACTCGTTCACCTCCAAGCATTNCATG



ANAAAGCTGCTTCTTATTAATCATACAACTCTCACCATGATGTGAAGAGTTTCACAAAT  
CTTTCAAAATAAAAAAGTAATGACTTAGAAAAAAAAAAAAAAAAAAAAAANGTCCT

NCGGGGGAGAAGGCGGTTTGC GTATTGGGCGCTCTTCCNGCTTTCCTCGCTCACTGNAC  
 TCNCNTGCGCCTCGGTGCGANTCNGGNTTTCNNGCTGAAGCCGGTTATCAAGCCTCACT  
 TCAAAAAGGGCGGNANATTACCGGGCTTATCCACANGNANATTCAAGGGGGGGAATTAA  
 ACGNCCAGGGAAATAANAAACCATTTGNTGNAANCCATAAAAAANGGGGCCANGNCCAAA  
 AAAAGGCCCCCNATNGGAANAACNCNGNTAAAAAAAANGGGGCACCGNCCGTTNTGNCN  
 TTTGGGCGCCGNTTTTTTTT

CCGCGGTGGCGGCCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGGGNGCTTAAA  
ACAACNCCATTTTATTTAATATCTCATGATTTTGTGGTCAGGAATGTGGACAGAGCTCA  
GCTGGGAGATTGTTCCACTCCATGTAGCATCAGAAGACAGGTCTCTTGGTGATATTCAGC  
TGGAGAATAAGTTAATATGCAGAGTTCAAGATGGTTTCACTCACATTGACACCTTGGCAG  
GGATGGTGGAGGGCTGGGCTCAGCCAGATCAGTTAACTGGCGCTGCCTGCATATGCACTC  
TCCACCATGGTGGTCTCTAGAATTGCTCAAATCTAGAATTGGCGATGCATCCCG

CCGGGCAGGTACCCGGGCGTGTGAGGTGTCACTCTGCCCTACTTGGGGGTGCCTCCCAG  
TTAGGCTACTCGAGGGTCTGGGACCCACTTGAGGAGGCAGTCTGTCCGTTCTCAGATCTC  
CAGCTGCGTGCTGGGTGCTGGGAGAACCCTACTCTCTTCCCCGCGTACCTnnnnnnnnnn  
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn  
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn  
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn  
CTTTGGCGTAATCATGGTCATTAGCTTGTTCTTCTGGTGAAAAATTTGTTATCCCGCT  
TCAACAAATTTTNCACACAAACCATACCGAAGC

CCGCGGTGGCGGCCCGAGGTACGCAACATGACATTGGCTGGTGTAAGATCTTACAATTA  
TTTTTAAAGTTTCATTGTATTCATTTGATTATATAAGTTTCTTGCCATCACAAACAAAC  
TCCTATTTCATGTCTAATTCGATACCTGGTGAGTCCACATAAGCATTGGGTCCCCACTGA  
TGAGAGCACCATGGCCAGGTCACCCACTTGATCAGGTTCTCTTGCTTTTGTNTGNGCATC  
TCATCTTATTGTAGGCCATTCAAACTGTGGGCTCAGGCGAGCCTTCCAGTGTGATCATAT  
TAATTTTATATTTTATGTGTTAACATGCGCTCCCAATAACTTGCTTCCCTTGCTCACCAT  
GGGTGATGCATTTTTCTACTTTTATGTCTCTCGCTCATTGATTATGATGAAGCTGCTGACT  
ATTTGAACCTGGTACCTGCCCGGGCGGNCCTCTAGAATA

[illegible]

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGTATATCTGAAAAC  
CTAATTTCTTTCTTTTTTTGATAAGGAAATCTTTTCCATCTCCATCCTAACATGCACAAC  
CTGTGAAGAGAATTGTTTCTATAGTAAGTGGTCTGTGATCTTTTGTGGCCAAGAG/ATAG  
CAGGCAAGAATTAGGGCCTTGACAGAATTTCCACGAAGCTCTGAGAACATGTTTGTTTCG  
AATGCTGATTCCTCTTTGTCAATGTGTATGCTCTGTCCCCATCCTTCACTCCTCCT  
CAAGCTCAGCACCAATTTGGTTCGACAGGCACAGAGCTGGTCCCTAGTTANAGTGGGCAT  
TTATGTTAAAAAAAAAATAGTTCAGAAATC

CCGGGCAGGTACGCGGGGATTGGGACAGCCGTGGGAAGGACAGTTATGAAACGAGTCAGC

TGGATGACCAGAGTGCTGAAACCCACANCCACAAGCAGTTCCANATTATATAAAGCGGAA  
AGNCAATGATGAGNAGCAATGAAGCATTCCGATGTGATTTGATATGNCATGGAACCTTT  
NCAAAGTCAGTCCGTTGAANTTCCACCAGCCATTGTAATTTTACAACAGNNCATTGAAA  
GTATATTGCTNGGGTTTGTTAAGAACNCCCCAANAANGTTAACGGGAANGGAAGNATTNT  
AACCACCCCTTGAAAAAATTTCCNGTTATTTTTTCTCCAATGAAAAATTTAGNAATTAG  
GATTNGCCAATTCNTATNTTTGGTAGGGGTTCAAAANTTTANANNAANGGGGAGGNNA  
AAAAAAAAANAAATTANCCANAANTTTTTNCTTCCAACCTTTTTTNGCCNAATTTTTAA  
GGTTCCNAAAAAAAAAGNAAAAAAAAAAAAATTTGGGC

ACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTA CTGCCCCAGCGGT  
CAGTGCTGACAGTTGCTTGTGAACAACTGAAGTTCTGCTTTTTGACCCTATATCTTCAA  
AGCACATAAAAAACACTTTCTGAAGCTCATGAAGACTGTGTAAATAATATCAGATTCTTGA  
TAACCGGCTGTTTGCTACCTGCTCTGATGACACTACAATAGCACTATGGGATCTGAGAAA  
ATTGAACACCAAAGTATGCACTTTACATGGTCACACTAGCTGGGTGAAGAACATCGAATA  
TGATACTAATACAAGACTCTTAGTAACATCAGGATTTGATGGAATGTCATTATTTGGGA  
CACTAACAGGTATACAGAAGATGGGTGCCACATAAGAAATCTTTACACACGTTTTCT  
CATCGGAATGAGGTTAACACCAGATTGTTCCAAAATGTTGATTTCAACCGTCCTCTGGAT  
ATCTCTTAATTTGCATGACCTTGACTTAAGTCTTTAGAAGTAGGCAGCTATCCCA  
TTTT

GGCGAATTGGAGCTCCCCGCGGTGGCCGAGCGGCCGCCCGGGCAGGTACCAACTAGAGGA  
 TTCTGTGACCTTCTCAAACCTCTAAAATTTTTGGCACTGGACTGTTCCACTTTGAAGGGT  
 CAAGAAAGAAATCTGGAGGTTGCAGAAATCAGGGTCAGGCGCACATACACGCACGCACAC  
 ACACNCACACACACACACAGATCCAGCAGCATCCTTGGAACATCCTGAAGTCAAGAAA  
 GGCACAGCACTGTCTGCCCGATAGAAGGAATTCAGAAAAACAGCCACCGAGGTTGGGCC  
 ACAGAATTTCCAAAGAGAGCAATCTACAACTGGGGGTTGATTTCCAGTACCTGGATCT  
 AANCANTCAAACACACCGAGAAGGGATTTTTTTTTTTGAAAGCTGCCACCTTCCAATT

[illegible]

Sequence 2554  
GCGAATGGACTCCACCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTNN  
TNNAGGATACAGGGTCTTGCTCTCTTGCCAGCCTGGACTGCAGTGACAGGTCACTGTAG  
CCTNAAACTCCCGGTTCAAGTGATCCTCTTACTTCAGTTTCCAAGAGCTGATATTACA  
GGTATGCACCACCATGCCCAGTTAATTTTTAAATTTTCTATTGCTGTCTGTATTTTCAT  
ATCAAGATAAAAGCACAAAGTTTAGATTTACCTTTTTTTTTAAAAAATAATCTTTTACTG  
GGAGGTTGGCAAGAGACCCATTTCTCAGAATTCCTGTATGGCTCATATCTGNGTCAGGG  
ATTTGGGGGGGAAAAGACAATTTCCNGGGATAGATGAACCCCGCACTCATNTCTTCAAAAC  
TTAAACTCTNCAATGCCACAATTTT

Table 1

Sequence 2935

CGCGGTGGTTCGAGCGGCCCGCCCGGCAGGTACGCGGGCATGATCAAAGAGCAACATCTG  
AGTGTGTCCTGAGTGAAGTTCTGTAAAGATAAGAAGCAGGACTTGCCACCGCATTGCAAG  
AGAAAGTTTACCAGCATCAATTAATTAATAAGAGGCAGCCAATCGGCATTGGGCACAA  
GGGAATGATGCTTGTATTGGAGCATGATGAAGAGATGTCAGCTTTGTCTCAGCACCAACA  
TCACTATTAACACTTGCTATCTGTCAACCAATCAGCAATCTGTTCTGATGTAATCGAGAG  
TTCCAAAGCACAGCTCAATTCTTCCACCTCTCTGAGAAGAAGTGGGTGTGTAGGCCTTCT  
GACAGTGGGAGAAAGTTGCACTCTTTGGGACTCAGTTTCTTCTCAAAACTATTGANGAA  
ATCATCACGTGTCACTGTTAGCTAGGTCCAGGATGTTTGAATAAGAATTGTGGTTATATT  
ATAGTAAATTGNGTAAAAAATCAGTTAAGTTATGGGTAATAGGTATGGCAAGTTCATGT  
GCCNAAGAATCTTATAAGTTTTTTACATTTAGTAATTCATTTAAGTCTCACAGTANCCC  
TACAANGTATNATTTTCTTATTTTAAAGAGGCCAAAACGAGGTCCCTCGCCCGCTCTNA  
ACTAGTGGATGCCCGCGCTGCANGNATTCGATTTCAAGCTTATNNGTCCCNCCNACCTNC  
AGGGGGGGCCCCGG

Sequence 2936

GAATTGGAGCTCCACCCGCGGTGGCGGCCGGGCGCAGTGGCTCACGCCTGTAATCCCAGC  
ACTTTAGGAGGCCAAGGCGGGTGGATCAATTGAGGTTGGGAGTTCGCGACCAGCCTGACG  
GATATGGAGAAACCTTGTCTCTACTAAAAATACAAAATTAGCCAGGCCTGGTGGTGCACA  
CCTGTAATCCAGCTACTCGGGAGGCTGAGGCAGGAGAATCGCTGGAACCCAGGAGGCAG  
AAGTTGCGGTGAGCCAGATTGCACCATTCACCTCCAGCCTGTGCAACAAGAGTGAAATTC  
TTGCCTCAAAAAAAAAAAAAAAAAAGTACCTGCCCCGnnnnnnnnnnnnnnnnnnnnnnnnnn  
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn  
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn  
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn  
CAATGNGNCATAAGCTTGTTCCTGGTGAAATNGNTATNCGTTACAAAATTCACACA  
ACATANCGAGCCCGGNAGCATAAAGTGAAAAA

Sequence 2937

NGGCGGCCGCCGGGCAGGTACTTTTTTTTNNNTGNTTTTTTTTTTTTTTTNTTTNNCAGAGA  
 CAGCTTTNTATTCTGTCACCCAGGCTGGAGTGCAGGGGCCAATNTCAGCTCACTGCAGC  
 CTCCACCTGTTGGGCTAAATCCATNTCCACTTCAGCCTCCTGAGTAGCTGGGACCACAGG  
 CACGCATNACCACTCCC GGCTAATTTTGNTTTTCATAGCACATTACATTACCGATTCCC  
 AGTTTATAAGTAACCAAGATGCTCAAAACAAGCAAAATATTTTCCTTGAGTATGACTTACTN  
 CAAAAAAGAGAAAGAACAGAGAAATTGGTCTGAAAGNGCATTTTTCTAAAGCCCATTTC  
 AGTATTTGNTAGCTCATATCATATACAAGTTTTAATCAAAATGCTAAAGAATATTNTATT  
 AATANTCTTCTATTCCATC

Sequence 2938

AGGAGATGCTGCCACCTAGGTTACTTGTAGGACCCTATACGGCAACCTCCTTTGCCAGGA  
ACTATTTATAAACATCCTGCAGGAAAAATGAGTCTATATGTCAGAATACACATTTNCCACC  
TTGCCCAACAGTNGAAAAACATATGAAGAGAAAAACATTAATAAATGACAAGGAAGTTAA  
TGGANGTCAGCAATGTGATGGTGTGGAGGTGGAGCCTTCAGAAGGTAATTAATGCCCT  
TGTAAGAAGAGGCCANAGAGCTTGCGCACCTTCTTCCTGCCATGTGAGGAGCCAAAGAAG  
CCCGGCTGTCTGCCAACCTGCAAGAGGACCCTCACTAGAAGCTAGCCATACTGGCATNCTN  
ATCTTGGCTTCCAACTTCCAGAACTGTGAGAAGTATATGTTTTGTGGGTAGTCAATGG  
CCTATGGTAAT

Sequence 2939

CCGCGGTGGCGCGGCNCGCCGGGCAGGTACGCGGGGACAATTGGTTCATTTTTATAGGT  
GTTGACCGTTATGCCTATAAATAAGCCTCCTATAGACATACAGAAATCATATCCTGTGGA  
ATTAGAATATAAGACTTGGTAAAAGAGATTTCAAAGTATTTTTACTTAACTTGTATACTTG  
AAATCACTTTAATCCAGACTGAAGTTGTAAAAGCCGACGCTGTTTTCAATATAGACTTCC  
ATGTTTGACCATCTGAAATGAAAAACACTAAAAACATCACATGCTGTTTTAGGAGCTGGA

Table 1

AATTTTAATATTTGACTTCAAGTAGATGGTTTTAACTCCTGAAATCGAACTACGTTTAA  
 GTTTGTATGTTTATTACCTGTTTGAGCACTTAAGTGCAATTGTGGGAGCGGGGATGTCAA  
 GTTCATTTATGTGACTCTTTGGCTCAACTACATAATCTTTGTTTGTATACACAGTTGT  
 CTAATTATTTTACTTTGTAGCTTAAGGCAGGCTGAATTGTTGATAAAATGGAAAAAGTAG  
 TATATTGTTATATAAGCTTCTGAGGTGTGTTTTGTTGTATAAGCCCTGGAGGGTAAAAAG  
 TCATNCCTTATGTATAGTAGTTAAAGGCATAAACTGTGACTTTTAGATATTCACCAGAA  
 CCAGACTTATTTGGATGGGGATAATAACCCAATGGATTAANCATTTGGTTGCTTTTGGTT  
 TAATTTATCCGGGT

Sequence 2940

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGTAAACATG  
 ATTGAGCTAGAAGACAGTTTTACCATATGCATGCATTTTCTCTGAGTTATATTTTAAAT  
 CTATACATTTTCTCTAAATATGGAGGAAATCACTGGCATCAAATGCCAGCTCAGACGGAA  
 GACCTAAAGCCCATTCTGGCCTGGAGCTACTTGGCTTTGTGACCTATGGTGAGGCATAA  
 GTGCTCTGAGTTTGTGTTGCCTCTTTGTAAATGAGGGTTTGACTTAATCAAGTGATTT  
 TCATAGCTTAAATTTTTTTGAAGAACAGAACTTTTTTAAAAACAGTTAGATGCAACCA  
 TATTATATAAAACAGAACAGATACAAGTAGAGCTAACTTGCTAAAGAAAGGATGGAGGCT  
 CTGAAGCTGTGACTTCATTATCCCTTAATACTGCTATGTCTCTGTAGTACCTCN

Sequence 2941

AGGTACCGCGGGGAATACAAAACAAATAAGCCATCACGCCTGCCCTTCTTGATATTGCA  
 CCTTTGGACATCGGTGGTGCTGACCAGGAATCTTTGTGGACATTGGCCAGTCTGTTTC  
 AAATAATGAACTCAATCTAAATTAAGAAAGAAATTTGAAAACTTTCTCTTTC  
 CATTTCTTCTTCTTCTTTTAACTGAAAGCTGAATCCTTCCATTTCTTCTGCACATCTA  
 CTTGCTTAAATTTGTGGGCAAAAGAGAAAAAGGATTGATCAGAGCATTGTGCAATACA  
 GTTTCACTTAACCTCTTCCCTCGCTCCCCCAAAATTTGAATTTTTTTCAACACTCTTAC  
 ACCTGTTATGGAAAATGTCAACCTTTGTAAGAAAACCAAAATAAAAAATTGAAAAATAAA  
 ACCATAACATTTGCGCCACTTGTGGCTTTTGAATATCTTCCACAAGAGGGAAGTTTAA  
 ACCCAAACCTTCCAAAGTTTAACTACCTCAAACACTTTCCCATGAAGTGTGATCCACA  
 TTGGTAGGTGCTGACCTAGACAGAAGATGAAGTGAAGTCCCTTGGTTTGGTTTGGTCATA  
 TACAAAGGNGCTAATTAATAGNATTTAGATACTTGNAGAATGGTGATNGGGCTAGAANA  
 ATTTGGANAANAATACTCCTGTATTGAGTTGTATCGGGTGGGGGATTTTTTAA

Sequence 2942

CCGGGCAGGTACTTGGAATGCTGTGTGGAGTCCTTTTTCTACTTTTGTTCCTGAGAAAGA  
 GAGATTCAAACTTCCCACATCTTCCAGTGGCATCTAAGGATCCCTTCCATAATGGCC  
 TTTCTCCCAGCCAATAGACTGAGCAAACCATGTCCCTGATGCTTCTGCCACCACCATC  
 CATTTCTTCCAACCAACAGCTTCTCCGGCCTTTCACGTGCCATGCATTTGCTAAGAGCTT  
 GAGGGAAATACAGCAATGAAGAAGAGATGATTCTGTTTGGACCAGTGCTCAGGGATTCT  
 CCTATTAGAAATCAAAGAAGGCTTCCAAAAGCCCTACAATTTTTTCCCTGTACTAAAGAA  
 AATAGCTTCTCAATGGTACTAAATTTTATCTCATACGCAAATTGGAATGTATACCCCTTC  
 ACTCTGAATTGCTTGGAAATATTNCAGGAGAAATAAATCAACTCTGTGTNANGGTCTTCT  
 AAAAAAGCAGAAATCAAAGGTCACCAGAAAGACCTTTAAATCAACTATGTTTCTGACAA  
 TGTTGCTTTGAAACTGGTACCCCACTTCCGCAAAATCACCATTGNAAAATCCTTTGTGG  
 TGTAATTAAGAAATATCATGAATGCCCTGAATGGTCAAAAATGAGTGGTTTTGTTTTGG  
 T

Sequence 2943

ATGGGCGAATTGGAGCTTNCCGCGGTGGCGGCCGCCGGGCAGGTACGCGGGTTATTTTCAT  
 TTAGTATGATTTTAGGATCCAGAAGAATCCACCAGATTGCATGAGTTAGATTGGGAAAT  
 GGGAGTGGGAGATAATATTGGGAGGTATCTATTTTAAGTCAGGGGGCTTACTACCGATT  
 GTTCTCACAATAACCATGTGGAGAGCTGTGACATTTTAAATTAACAACCTTTCTGGGGC  
 TCAGACATAAAGTTACCTATCCAANGTTGCAGTTGGGTAGTGGTGGGACCAGCATGGACA

Table 1

ACTCATTGGCCCTGCCTCAAAAGCCATACCTNTTCTCCTGCTATGCAGAATCTGTTTCTC  
CTGAATCTCTGNGATGCTGGTGGGAATTGTTTGCATAGAGGAANGACANTAA'CCCTGCCN  
TCGTGAGTTAATGTCCGGGCTGGTCACAAGNGGTTTCATGCCTGTAATCCCAACACTTTGG

0

## Sequence 2944

GGCGGCCGAGGTACATCAACAATGACTGCTTCTTATTTCTCTTTGAATCTCCAATACCTG  
TCACCAATGTTTGGCACACAATAGGCATTCGATAAATATCTGTTGAGTGAACGCAAGAAA  
GAATAAACTCCCACGAACATCTAAACAACAGTCCTGCAAAACAGAGAGTTAGCATACAAC  
AAACCATGTGTCAACATTCCCTCTTGTAGTCCCTGCAGATCTTAGAGACTGGAAAGCGG  
GGGATATAGAAGGACTGGAGGGATATATCCATATATCACTGGAAGGTAATAAAGGTGG  
CCTGGTTGAAATACTCCATTGACATAACTAACAGTCACCAACAAGCCAAGTGGAACCTCT  
ACAGCTACCTTAAACCCTCTTCACAATAAC

## Sequence 2945

CCGCGGTGGCGGCCGAGGTACATGGTTTCCATTGCAGCGAATAGACTAATATTCCTTCTG  
CTGGCAACCTAGACAAGTTCCTAAGCTTATGGGTAAAAATGGAGTCAAAGAGAAGTGCC  
AGTATCCAATCTTCAAATATTTGCTGAGGATCACATGAATTTAAAAAGAAACGCTCCGA  
ACAGGAAAAACAATTGGCCAAGCCTTGGGAAGGAAACAAGAGGGANGGCATCCAGAGACT  
CTGGCTGCCTGATGTAGGGCCTTCGAGGTTGAACAAGGGTGAAGGGGGACCCTCACATGG  
GAACAGCGTGATGGAGGCAGTCTGCTTATGAGCTGGGAAGTGAATTGTGTAAACATTATT  
GAAGTCAGTTTGGAAGTTGCAAGCCACAAAAAGCCCTATCTGAAAACCTGTTGAAATTAC  
CCTTTG

## Sequence 2946

CCCCGCGGTGGCGGCCGAGGTACACCGAGAACATCACCTGACTTCCCTAAACTTCAGTTT  
CCTTGTCCTTAAGAGAAAATAAAAAATATCTTCTCAATGATTAATTTCTTAAAAATCAAT  
AAAATGTGAAATAATATCTGGGATGGATTGTGACAAATATTATGAATGAAATTAATACAG  
TTTCTTTAATTATTTATCANAGTTCAGAGAAACACAAATGAAATCATGAATACTAATTA  
ACTGTGTGCTTTTGTAGAAAATGCATTACATCTCTTCTCAGTATTCAAGCATGCCTTCT  
TTTTTTATTTGAAATTATCAATAGCATTCTAATCTGNCTTCATACTGGTGCTAGAAATTC  
ATCACAGTTTTTAAATC

## Sequence 2947

NCACTCCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGTAAAAAA  
ATAAATCTACCACTAAATATAGTAAGGGAGTTTTAACTGAGGTTTTGAAGTCTTAAAG  
AATTTATTTAGAGACTTCTTTTGTGGAGTATGGTGGCTAGATGCCATGAAAAACCCCT  
GAAAACAAGTGTAAGTGCTAGGTAATATGTTGAAACATATCTTTTGAATGTATTACTGA  
GCTGGCAAGAAAGTATGCCATTGTAGAGAGTGAAAATAAGTGAAGGCAGAATCCTGGGAG  
GTAAGCCAGCCTGAAGATATTGATGACACTGGATGGCCTTAAGTTTCCATTTTACTGGC  
ATGTAATCCACCAAAGATTCCACAGAAATCCGAGGTTCCAAATGGTAAATCCGTGGTGA  
CATTGGGGTGACCCGAGAAATGAACTCTTGTGCAGAAAGGAATGGTAACAACACTTGTCT  
CGTCAACTTTGGCTCTAGGTAGGGGAAANGAAAACAGCTTTCTAGAGAAATGGTNACCCC  
AAGCTAGCCCTCATGAGANATTCAGCTAGGGATNGATGCTATCTGTGTAGTGCCAAAAAA  
AAAAAAAAA

## Sequence 2948

AATTGGAGTTTNC CGCGGTGGCGGCCGAGGTACGTGGCGTAGCATTCCATGTTTCACTTT  
GACATTTATTTTCTCATATCAACCCTTTTACACGTGAAACACAATCTCGCTCTTGAAGT  
CTTAACTGCATGATCTGTGAAACCTGTATTTATATTTTCTCAGGTATTCTTGTCTGTG  
TGTGTCCTAAACAACCAAAAGAAAACCTTCCAAATCTAAAGTATTCTTCAATTGG  
AGCAAGAGGAGTCAGTTAGATACTATCACGGCATTCAATTTGTGGCTGGCTGTATTT  
ACTTATGATTGATAATAAATCTATTTTGTCTTTTGTAGCCTCCCGAGAAGCCATCTGCCT  
TCGAGGTATTTAAGTTTCATGATTTCAATTTGAATGACTTATTAACATGTATTTTGTGA

Table 1

AAGTATACATTCTTTATTAATCATTTTGCTTCCAACCCCATTTAGCCTGCCATTGAAATG  
CAAAAAGTCTGTTCCAAATAAAGCCTTGGAATTGAAGAATGAACAAACATTGAGAGCAGG  
TAAATTTTTTAATGGAACATATGCCAAGACCAATATTTCAATATTGGACATTTTGATGGTC  
CTTCTATTTCCCAATGCTTTAT

Sequence 2949

CCCGCCCGGGCAGGTACGCGGGTATNGGAGACGATTGAAAAAGGATTTGAAGAAAGGANT  
ATTGCCAAGTCTCCACTTTCTCAGGGNCTGAANTGAACTTTTGCTCACAGCAGGTGAACA  
CAGGCTCCCTCCCACTGAGACTTCTCCCTGCCGGTGTGCAAGTCTGTTAAGTAAAC  
AGAGACGTTATACTGAGAAAGGAACATTTCTCTATTTTGGCTATGAGTNGGTATTTTTAA  
AGATCATCTCCAAACATTTNCCCCTATCCTTGGTTATTTTTCTACTAGAAAGAAATGA  
ACTGCTTAAAAAAAATTCAACTCCATGACAAGAAAAACCCA

Sequence 2950

ATAGGGCGAATTTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACATTCTGAGCGATCTGCA  
TTTGGTGATGATGGAAGCCATGGACATGCACTAGATTGTCTTGTTGGGAGAATATGGAGTA  
GTAAGAGAAGGAGAAGACCTAGGATTGAGCCCTGAGCACCTCTGGCTTAATGTTGGATGG  
AGGAAATTTGAATCTGTAAACAATACCGGGAGGCTGCAGCCTGAGAGGCANAAGGAACTGG  
GGTGTGTTGGGATTATGGAAGCCAAGGGAAAAAGCCTGTCTCACAGCGGGAAGGGAGGTAT  
CAACATTGTAAGCTGCTTCAGATAGGTTATGTAGGATGCCGACTGAAAAATATCTGTAA  
ATTTGGCAACCCCGATTCAATTGGTAATCCTAGGGAAGTTGCTTTTTTGGG

Sequence 2951

CGAGGTACCACCTGAAGTTCAGGGAGTGGGCATGGGGCCTAAGGCAGGCCAGTGAGAACT  
CAGAGGCACTAAGATGTATGTTCCCACTTGCAAGAAGAGGTGCATGCTCACCCAGTAGTTG  
CTAAAAAGGCTGAAGGTAGGTGTAGAGATGCTTTTGGGGCCATGGTTACCACCCCTTGAGG  
TAAGGAGGGAGGGTGAGTCTGCCTAAAAATGAACCAAATCGAGAGTGCAACCACAACCTGC  
ACTAAATGGAAAGAAACAGANATAAGAGAGATGGGCTCCTCTCACACACATTTGGGGAC  
CTGAACCTCAGCCCCGCCTCACCTANGTACCTGCCCG

Sequence 2952

CCGCGGTGGCGGCCCGAGGTACAGTAGGGTATTACACAGCAAAAAAGCCTTCCTGCTGGA  
ATATTTACAGCATTTAGTTATTTATTACATTAGCTTTATGGCATATCACAACTATTTGA  
GACAGGTAGAGTGAACCCCTTTCTGCCACACAGAGGCACATTAAGTGGCCATCATGACTG  
GTGAGACTTAATTGTTTACACCGGGCAGTTCTCTGTCGTGATTTAAATCCCTCGTAAAG  
CAGCTGACCCAGTTCTCAGGATGATTTGGATCCCCCGCTAACTTGAAAAATCAGAGCCA  
GCTGAGAGTTGGCTTGACATTTTAGCATCTGGTAAAAGCGTGCAAGCTAGTGAGATGTG  
CAGGGAAGGAGTCATTGGCAATTGTATGTGAAAACACCTAATTAATTGTTTATCTCTTTT  
AATTTGGTTAAATGATCATAAAATGCTCGCATTATTTGAAGATGTCTTCATGTTTATA  
AAACTGTCTTCATGTCTTCACATATTTATAAAACAAAGTTNCAATCATTT

Sequence 2953

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACGCGGGTGTTC  
GGGAATTACAGCATAGATATGAAAGATGTCTGAAAAATTGGAAATATCAAATAAAATTA  
AGAAAGCCTAAAACTACATCAGATTAATATGTAGTATAGTCTTTCACATCTGGCCATGATG  
GATGGAGCAATGGGATTATATACATTCTCACAGTAAACAGTTTTTCAGATATTGAACAA  
CAAAAAGTAGGCAGTGCTAGCCAGAGATTCCTTGAGCCAAAAACAAAAACAAAC  
AATAAAATTTGGTAATCTCTATATTGCTCCAGTTTGCTGCTTGAGAAAGTTCTCAGGCT  
GCAGCTCAGAGAGGAAAAATCCAGAGCTCAGTGGTCTGAATGAAGTTAAAGAGGATTTGG  
GGCAGCAAATGCCAATTTAGAATTCACAGGCCANAAGTGAGAGGAAGTGTANAGATGGAG  
AGGGGTGTGCCTGAGGGAAGANAGAGAAGAGCCANNANAGGTNGAACTNCCGAGAGAACA  
AGTTGCAAAGTAAAAAANNAANTAANGACTGGGNGCTGCAGACAGGTTTCAGGNTTTAA  
GTNTGGATCCNGNGCCCCCATGTGAGGAACCTTCAGGGCAAATANCTTCTGGAAANGAA  
GCNGATTGNACAATGCTNAATNGGACAGAAAANGGGTAAAAATAATTNNCTNGGCCTCC

Table 1

TAATNNGCCAAGNTNGGCNCCTTAATTTTCCCANAGGTTGGGGAAATTACCCCNAAAGG  
GTTTGGCNTAATACCAGGNNNCTNGCCCGTTTTANAAC TANGGGNNCCCCGGCCTNNAG  
GAATTNGATTAACTTTTCNTTCCCGNAACTNNGGGGGGCCCGG

Sequence 2954

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTTGTGAATGT  
AGAAGTGAATAAATAGCAAGACAGAGTCACCCGGCTGGCTTGGACCTGGACTGGCCAAGC  
TGGTGGTCTACACCATGATTTGCTGGATAATCCATGCAGCTTTCCTGCATAGACACAGA  
TGCAGCCCCCTCTGTCCAAACATGATGCTCCCTCTGTCAATTGATGGGAACCAGATGGAGTC  
GCGCCTGTAACATGACTGAGCACTGATTTAGTAAAGTAAATGAATTACCAAATTGTAGT  
CATTATAATCTATCTTCATCTTAGTGACACACTTGACTGGCTGCTATAAACCAGGATTTG  
AAGAGTGAATGTGGATTTACAGACCTCTCATCTCTGCCACAGGATCCAAATCTGGCAGA  
ATTGTCATCTCTCCCGCGTACCTCGGCCGCTCTAGAACTA

Sequence 2955

CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGAAAACAAACCATATCTAAACCATAGC  
AGTGGCATCCTTTGAAGTACGCGATCCAGTCATAACTGAAGTTCATCTACACCTGGGGT  
CTTCAGACCCAGGCTCTGGAAAAGATCCTGTTACTTACAAGCAAAAGAAATTCTGCCTCT  
TACCTCAGCATGTGAGTACCT

Sequence 2956

CCTATAGGGCGAATNGGAGCTCCCCGCGGTGGCGGCCCGAGGTACATGGTTTCCATTGCA  
GCGAATAGACTAATATTCCTTCTGCTGGCAACCTAGACAAGTTCCTAAGCTTATGGGTA  
AAAATGGAGTCAAAGAGAAGTGCCAGTATCCAATCTTCAAATATTTTCGCTGAGGATCACA  
TGGAATTTAAAAAGAAACGCTCCGAGCAGGAAAAACAATTGGCCAAGCCTTGGGAAGGAA  
GACAAGAGGGGAGGCATCCAGAGACTCTGGGCTGCACTGATGTAGGGCCTTTCGAGGTTGA  
ACAAGGTGAAGGGGGACCTCAGATGGGAACAGCGTGATGGAGGCAGTCTGGCTTATGAG  
CTGGGGAGTGAATNGTGTAAACATTTATTGAAGTCAAGTTTGAAAAGTTGGCAAGCC

Sequence 2957

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTCTGATCAAGCTAGGTCATGT  
GCTGGACCCTGGGAAAGCGGACACAAATATCCTGCCCTTACTGGCTGAATACGTAATGAG  
GGGGACCCAACATGGGAACATATAAATGTGCAATTTCAATTTTTTTAAAAAACACCTT  
GATAAGAAATCAAATGTGCAGTTTCAAAGTGTGGCAAAGCCATGCAAGAAATGACCGGG  
CACGGTGGCTCACACCTGTAATCCAGCACTTTGGGAGGCCGGGGCGGGGGATCACTTG  
AGGTCAGGCATTGAGACCAGCCTGCCAATGTGGTAAATCCCATCTCTACTAAAAATAC  
AAAAATTAGCTGGGTGTGATGGTGCATGCCTGTAGTCCNAGATTATTCANGAGGCTGAGG  
CANGAGAATGGCTTGAACCCANGAAGCAAAAGTTGCAATGAGCCAAGATGGCACCCTT  
GCACTTCANCTGGGCGACAGANGGAGACTCTTGTCAAAAAANNNNAANNNNNNGGNNNN  
NNNGTTCCTGCCNGGCCGGCCGTTTTAAACTAGTGGATCCCGNGGCTGGAGGAATTCCAT  
NTTAAGCTTATNGATACCGTCNANCTTCAAGGGGGGGCC

Sequence 2958

AGGTACGTTGTTCTCTCTATGTGTCCATTAAATCCAGTCAAGTACAAACCATGAGATT  
CCATGATTACAATGCCCCAGAACACCTCCAAAAAAGAAAAATAAATACCATTTTTAT  
AATAATCACTATAAGATAAATGCATTGAACACTAAAAGCATCATAAATATTTTATTGGC  
CATGAAATCTTGTTAAATTAGCAACTACCTTCCCGTGTAATGAGGGCTGATGTGGAGT  
GACACCACCGTTACCTGAGCCAGGATGATAAGGGGGTCCCTCTGTGCTTTACCTCTTAAG  
GAAAGTAACTCTGAAACAACCAATCACTTTTTGTTCTTTTCTGTTTTCTTAGCCCTTT  
TCTGCCAATAAAGCTAACCCCTCTGCTCAGCTTATTGAAGAGC

Sequence 2959

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACATTTCGCTAGAAACAGTTAAGTAA  
CAATACAAAGCGCCCTGAGTCTAGTTGCTGGGGAGGCCAAATGTGAAGTGGCTCTAGAA  
AGATCTGGGTGGGCTGAGAGACCATGTGGTAATAGCATAAGCGAAGACAGAGTGGACATG

Table 1

AGTCTGGGCTGCTTTGCAGGTCAGACGNGACAGAAGAAGGTACCCAAGGGCAGGGTANAG  
GGAAAGAAAGGACACTTTGGCTTNTGTAGAAAGTCGGTGAGTTTGTCCGGGGAGATTTGG  
GATCAGGGAAAATGAGAATGGATTAAATTTGTAATTTTTATTAGGGCCTGCTTGGGGTAG  
AAAAGGTTNTGGGGACCTTTTTCTTTTCATGCCCCCTGGAGGATAGCCATTGTTNGCCCA  
NGCCCGGGGGATGGGGACATTCTTTCACTATTCCCTACCCCCCAT

Sequence 2960

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGGCGGCCCGGGGGCCATTGAGACTGCCATG  
GAAGACTTGAAAGGTCACGTAGCTGAGACTTCTGGAGAGACCATTCAAGGCTTCTGGCTC  
TTGACAAAGATAGACCATTGGAACAATGAGAAGGAGAGAATTCTACTGG

Sequence 2961

TCCCCGCGGTGGCGGCCCGCCGGGCAGGTACAGTGGCACAATCATAGCTTAGTGCAGCCT  
CATTCTCTTGGGCACAAGCGCTCCTCAGCCTCCCTCCTCAGCCTCCAGTTGCTGGAAC  
TACAGGTGCACCACCATAACCAGCTAGTTTTATTTTTGTAGAGACAGAAGTCTCACTTT  
TTTTCTAGACTGGTCTGAAATAGACCATTCTATTTGCTAGAATGGTCTCAAACCATCCT  
TCTGCCTCAGCCTCCCAAATTGCTGGAATTTCAAGGCATAATTCATCATGCCTAGCCATT  
CTTTTTCTGCTGCATTGCAGAGTTAGAACCAATTTCATTTTGCTCCTGCACTGAGAATGT  
GCATTCACGANGATCATGGTTGAGCTCAGCACACCTGGCAACTCAAGCCAGC

Sequence 2962

GATACCAGGCCGTTTCCCCCTGGGAAGCTTCCCTCGTTGCCGCTTCTCCTGGTTCCGACC  
CTTGCCCGCNTTACCCGGGATACCCTGTTCCGGCCTTTTCTCCCTTTTCNGGGGNAAAGC  
GGTGGGCGCCTTTTCTCATAAGCTTCACGGCTGGTTANGGTATTCTCAAGTTTTCGGG  
TGNTAAGGGGTACGTTTTCCGCCTCAAAGGCCTTGGGGGCTTGGTTGGTTGNCACCGGA  
AACCCCCCCCCCGGTTTCAANCCCCCGGACCCGCTTGCCGNCCCTTTAATCCCCGGGT  
AAANCTTATTCGGNTCTTTGGAAGGTCCCAAAACCCCCGGG

Sequence 2963

CCGCGGTGGCGGCCGAGGTACAGCTGCATGCCATACTGCAGAATAAATAAATAAACACA  
TTCCCACTTTTACTACTCTGATAATCTATGAAATCAACACTTTCATCAATTATACA  
ATATAATATAAAACAATTAAAGCAAACAAGTAAAGCAACCAAAATTTGAAAGATGAA  
CTTTTAGTGCCCTGCAACAATACATTTAAAAAGACAATTGAAGTCTTTTACTTGGACCTA  
CAACTTAAGGTCCAGCTCACCAGTACTGGCCCCG

Sequence 2964

TCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCACAGAACCTCAA  
AGTGGGATATGGAGGGAGAGAAGGAGAATGAGAGAAGGCACAGAGGCAGGAAGAACAAGT  
CCGGTTTGGCTGGCAGGAGGCCATCTGTGAGAAGCCATCTGTGAAGCCAAATCTTGATT  
TCTAAAAGAAAAGATTCTTACTCTGGTGGGTAAAGCTGGAGGGCAGAGGGCAGAACCA  
CCAAAGGCTTTGTGCANAGAACAAACTGAAGCCGTGCTAGAGAAAAACCATACAGTGT  
GGGCAGGACAGATGACAGGACAAACGGTCTGAAGCTTAGGAAGCTTGACTTCACCAAGC  
CNGTGCNCACGTTGCAAGCATTTCTATAGAAACACNGTTCTTTGACCCAACATGCCAA  
AACCATAGNTTCTGTCTTACAGAAATNAAGGGCTTTTC

Sequence 2965

CCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACAAGGTATTT  
TTGCTAACTGTAACCTCCCACTTAATCAACAAAAACAAAACACTCATTTCTGAACATTC  
AGTGCAATTCATGATTAATCTTAATTACACCACAAAGGTATTTTCAATGGTGATTTGCG  
GGAGTGGGGTAACAGTTTCGAAAGCAACATTGTCAGAAACATAGTTGATTTTAAAGGTT  
TTTTCTGGTGACTTTGACTTCTGCTTTTTAGAAAGACCTTACACAGAGTTGATTTATTT  
TCCTGGAATATTTCAAGCAATTCAGAGTGAAGGGTATACATTCCAATTTGCGTATGAGA  
TAAATTTAGTTACATTGAGAAGCTATTTCTTTAGTTTACAGGGGAAAAAATTGGTAGG  
GGGCTTTTGAAGCC

Sequence 2966



Table 1

TATAGGGCGAATTGTAGCTCCCCGCGGTGGCGGCCGAGGTACATGTGGCCTTTCAGCTAG  
 TGCAGAGGATGGAACCAGAGTGGGCTGATGATTGGATGCCAGGCCTGAGCCAGGTGAGT  
 CCTGTTCTCATTATACTGTAAAGTGAGCTGCTCCAAGCCTCCCTGATTCTTAGCACTCCC  
 AGTCCCTGCAGGGGTCCCTGAGAAGGTTAATCTTGCAATTAGGCCCTCTGCTGTTTTCCCT  
 CTGTAAGCCTTACTCCACTTTGCAGTGAGTTCTAGTATAACTTCTATTCCAGTAAGATCA  
 AATGGTTAAGGACTCCAAAAAGAAATTTGGTGAACACAAAGGGTTTGCATACTTTAAC  
 TTTGTCCCTTTCCC

Sequence 2967

CCGCCGGGCAGGTACTAGCTGTTTTGCGACTTTTAATAATAACACCTACTAGTTACTGA  
 GTGTCATCATCACCAATGTCATGATTGCCACGATTTATTGAGTGCCTACTACATGCAGGC  
 CCCAGGTCAAGNGCTTTACTCTTACTGTCATGTTGACAACAGCTCTGAATGACAGGAGC  
 TCTGTTCAAGTGTGTTTACAAGTGAGAAAATAAGACACTAATAATTTTTAAAAATATATC  
 CACAGTTCTATGATTAGTAAGTAAGGGAGCTAGTCCT

Sequence 2968

CGAGGTACTCTACCCCTAGCTCATTTTCATTCCCTGGCTGACCTACCAGCAGAACCTCC  
 GCCCCCTGCGGCCCGATACCATCATTTTTAATGAAGTTAATTTTTATTTTTATTTTTAT  
 TTTTACTATTTTGATAACCACTTTCTGTGAAATAATAGTTTTTTTTTCAAACCTTGGCT  
 CATATCTCCTTTTATGTTAGCAGTCATGGCATAGAAAAGCTGCCACAGAATGACATACA  
 TCAAAAACAGTTTTCTGTTTAGACGGATAGCTTTAAGTGTGTGCAAACAGGTGCCTCTAT  
 GTGTGGAAGGAAGACATGCTAGATTATTTGGGGTCCACCTGCAGAGGAATGAGCTAATTT  
 ACAGAAGAGTGAAGCAGGCTCTGCACTGAAGGCCAGGGTTAAGGCATATAGCTAATGATA  
 AAATAATGAATGTGACTTTCTAAAAATGTCATGGGGGAGAAGAAAATGAGGAGGAAGGG  
 AAACTGGCTTCTATAATCTTGTAATGGTACAAATAGAATTGCCATGTGACTCAAATCTT  
 CTCAGAAGGTAAANGGCATANGGCACTTTTTTTAGTGGNGCATCTTTGTCATTAAACCAA  
 AAATAATTTGGGANGGAAATGATTTTCCCCCAAAGTTTAAATTCCTCGGTCACTGGCC  
 TCAATTTTNTTTCCTTAAAAATCCCTANGGAATCTTCTGGGGAATGAAAATNGGGAGCCC  
 TGTGCCATTTTCTTAAAAAGTTNGGGCCTTTTTTGGGGGGTTT

Sequence 2969

CCGCGGTGGCGGCCGAGGTACATGTGGCCTTTCAGCTAGTGCAGAGGATGGAACCAGAG  
 TGGGCTGATGATTGGATGCCAGGCCTGAGCCAGGTGAGTCTGTTCTCATTATACTGTAA  
 AGTGAGCTGCTCCAAGCCTCCCTGATTCTTAGCACTCCAGTCCCTGCAGGGGTCCCTGAG  
 AAGGTTAATCTTGCAATTAGGCCCTCTGCTGTTTTCCCTCTGTAAGCCTTACTCCACTTTG  
 CAGTGAGTTCTAGTATAACTTCTATTCCAGTAAGATCAAATGGTTAAGGACTCCAGAAAA  
 GAAATTTGGTGAACACAAAGGGTTTGCATACTTTAACTTTTGTCCCTTTCCAGGTGGC  
 GCATGCTTCTAGGCCAGCCTCCCAATTCCTAGCTTGCTTCATGCTCCTGGCCTTTGCCTA  
 CTCAAAACAATCTGTCTCCACCCCTGTCACTCTCTGTTCAAAAGTAAATACCTCCCTCCC  
 TCTGCTTTTGGCCTAAAGTTCTTTTTTCAACTCACCTAACATCTAACT

Sequence 2970

CCGCGGTGGCGGCCCGCCCGGGCAGGTACGCGGGAGAGGGGTCTTGCCCTCATCCCCTGC  
 CCTGTCTCTGAGACGTGTCCAGTAAACCTGAGGTGAGCACCTCAGGAATGAAATAATGTC  
 TTTTGCAGCAACTTGAATGAAGCTGGAGGCCATTATTGAGTAAATAACTCAGGAATTAA  
 AATCAAATGCCATATGTTCTCACTTATAAGTTGGAGCTAAGCCATGCGTATGCAAAGGC  
 ATGTGGGGTGACATAATGGACTTTGGAGACTCANACATGAGGGTGGCAGGTGGATGAAGG  
 ATGAAAAAATACCTGTTGAGTACCTCGGC

Sequence 2971

CCCGCGGNGGTTTTCGAAAAGTCCCCGNGANAGGCGGTTTTTTTTTGGAGGTTGAATGCA  
 GGGTTTTNTTGAGNGGTNTNNGTGGNTCTCTGAAGGATGGATGCAGAGCTNGAAGCGGGG  
 ATGGCACGGGAAGATAATCTTCTACTGGGTGGCAAACCTCTCCGACCACCTCGGCTGA  
 ACTCCTCTCGGCGTTCAAATGTTCTCTCTCTCTCTCTCTGCTGTATCGTTTACCATT

Table 1

[illegible]

Sequence 2972

CCGCGGTGGCGGC/CGCCCGGGCAGGTACGCGGGTGGCCCGAAGTTAGATAGATGAGGAG  
GGTATTTATCTGAGACAAACACTGGGAGGAAATTTCAACCAGANGGAATATTAGCATGTG  
AGAAGGCATANAATCATAAAAGGCATGTTGTGTTAAGGAGCTACAAGTAGCACAAATTTGG  
CTAATGTGTACAGTGAGAAGAGAGTGTGGGCAGATAGGTTGGAAAGAAGCCGTGAGTT  
AGATCATGAAGAGCCTCGGTAAGGAGTTTGTTTTAAAAACAATTACTGAAGAGTTTCGGAG  
CAAACACAATATTTATAGGTTGGAAATATTGCCAGAATGGAATAAACACCCTTACCAAAC  
CGTTCCTCGGC

Sequence 2973

CCGGGCAGGTACCTCATCTCTGATGATTAGTGATGTTGAGCGTTTCCCATGCCTGTTGGA  
ATGGCAATCCGTTGGAAATGCTTCTCAGTTACTACCCATATGTATGTTGCTCAGGCCAC  
TGNNTANTNCNAGCNCTGTCGTTTGNATAGNTACTTGGGGATTGTTGTCGTTGTTAGCC  
AAGACAAATGTTACACTGCTGTTTCTACAGTGAGTAGTGGGAGTGGGGTATGGGGACATA  
TGCTTATGCCCACAGTTCCATCANAAATCCCACTGCCTTAAGACAGTCTGACGGGAACCC  
ATTCCCACCTTGCAGCACTGGGTAGCCCTGTGGCATTTTGACTTGGATGATCATGCAAT  
GTTGAAGTCACTCAGCATGTTGCCATGCATTATCCCACTTAGTGTCAATGTTAAGGGAAG  
TTCATCGCCTCTGCTTCTTCANTAAGTCAATGCTGCTGGTGCATCAACTGAATGCATTTACG  
CTTTTAAGCAGTTCCACGGATCTATGGGGTNAAAAAAGGCTTT

Sequence 2974

CGCGCCGCGCCGGGCAGGTACCCCCCTATTAGGGAAAAGGGCTCCATCCTTTCCCTAAAA  
CTTACTCCTTTCTGCCTCTGGAAAAAGAAGGTTACAGCCATTCTTCACTCCAGTCCACTG  
CTTGTGTGATCACTACAGACCACTGCTTGNGNGATTTCCTATTTATAAATGATACTTTC  
ATNTCCTTTCTAACTNTTACTTTTGCTCACTTTTAAAGCCAAGATGTAGCCATCTAGCC  
CCTCCATGATGTCTTCCCCAGTGCTCCCATCTCTGCCTGTCTCTGCTCTTANATATCTTT  
CCATACAGTGTGATTGAATGTGATGCTCTAAACCCTTCTGGGTTTAAATGCTG  
GGGCGCTTCACTAACTAACTTATTTACCC

Sequence 2975

GGGCGAATTGAGCTCCCCGCGGTGGCGGCCGCCGGCAGGTACTTGGGGCGGCAGGTGGAG  
TTATAATTATAGCTTAGAAAAAGCAGCATCAGCAGCTGTTGCTTCTGTTTGTCCACGC  
TAACTGTGTCAGTGGGTAACTGGCATAAACAGGCCTCTACAAGTGGAAAAACATTT  
AACCCTGTCTTGTGACACTCTGGGTCTCTCAGTGGCCAGAGAACAGAAAGAAAATCT  
GACTGTGCACGAGCGAAGGGTGACACCGGGCGTGCAGCACCGACCTGAAGGCACTCTTC  
GGGGGAGCCAGAAATTTGAAGATTCTTTCTGTGGAGACTACAAACCAATAAATAG  
GGTTTATGTTACTCTGGTAGTGAACCGATGGTGAACAGTTTGTGAATTTGCCCTGCC  
AGA

Sequence 2976

TTGAGAGCTCCCCGCGGTGGCGGCCGGGGGCCATTGAGACTGCCATGGAAGACTTGAAAGG  
TACGCTAGCTGAGACTTCTGGAGAGACCATTCAAGGCTTCTGGCTCTTGACAAAGATAGA  
CCACTGGAACAATGANAAGGAGAGAATTCTACTGGTCACAGACAAGACTCTCTTGATCTG

Table 1

CAAATACGACTTCATCATGCTGAGTTGTGTGCAGCTGCAGCGGATTCCTCTGAGCGCTGT  
CTATCGCATCTGCCTGGGCAAGTTCACCTTCCCTGGGATGTCCCTGGACAAGAGACAAGG  
AGAAGGCCTTAGGATCTACTGGGGGAGTCCGGAGGAGCAGTCTCTTCTGTCCCGCTGGAA  
CCCATGGTCCACTGAAGTTCCTTATGCTACTTTCAGTGCAGCATCCTATGAAATACACCAG  
TGAGAAATTCCTTG

Sequence 2977

CGAGGTAACAGTCAGGAACAAATAGAACACATAGAGAGGACAGTGGGAGGTCCCCCT  
GGCTAAAGCAGAGGGTGTATTGAGAGAAGGAAACCTTGCCTCAATGGATCGTAGGCAAA  
CTGAGAAGGACCATAACACCTTGCTGAGAAGTTTGAATGTGATTCTTGGTGACCACAGC  
AGGAGGTCCTGAAGTCCCTGTCCTTCAGATGCAACAAGGAGGCTGTCCATACAGACTA  
TCAGGGAAAAAATGCACTGTTTATCAAAAGATATGAATGTTCTTGACAGGCAAAAGCCCTG  
CTCAATGAAATGGCAGTGCAGGGAGATGATATTCAGTGTGATGCAGCTGTGAGTACCTG  
CCCG

Sequence 2978

AGGTACCCGCTTGTGTGGTTCCATGATCCTTCTTCTGCCTGGAATGAGGCTCCTCTTGA  
GTCCTGAGAGCTTCATTTCTGTCTGTCTTTTGGGCTGTGCCAAAGCCCCCTCTGCCTTCGT  
GGACTCCCCACTGATTCATTACCAATTTTCTCTCCTCTGGGCTCTTCTTAGATTGCAAA  
TGGTGCCTCTGGATTGGGTACCTGCCCG

Sequence 2979

NCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATGGGTTTGT  
CACAGAGAAAAATTATGATGCTTTAAAAACACACACAGAGAAATAATAGGTTTTATGCAA  
ATGTCAAGACATTATAAATAAGAAAAATAATGTTATTTGTTATGCAGGCTAAACACTGAC  
CAACTCACTCAATATATTCTGGAAGTGGCAAAATAAAATTGAAAAGTAGAACAAAGTAAT  
TTACATACTACACTTATCTTCATATAAATTAAGTCAATGAGGCGCCATCACCATACCA  
TCAAAAAAAGAAGAAATTCCTACAATCAATATGTGGGATTTAGCTAAAAAAGAAAAGTCT  
ATTTAGAAGTCAGTCACAGCCACATGGTTACCTCAAGCCTTACCTCATCACTGCTCCACC  
CGGTTT

Sequence 2980

NGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGAGTGCTTCTGGTTTCAG  
CACACATGGAGATATAGAATTGAAATTGCTCTGCTTTCTTTACAAATGACTCAGAGTGTG  
CTTGTCCTTCCCTAAAATGTTGCCAGCATGTAAAGGATTTCAATGAGCAGTGCAATAAG  
CCAGCAACTGGGAAGGCTTGGAGCGGCACTGATATAACGTGGTGTCTCACACAGATAAT  
CAGGGCTGGAGCCAAGTCTCGGTAGCGCTGTGCATTATCCTGGTCACATACTCGAAGTTT  
TGTTTATCCAACTTGGTTGCTCTTGAAGCTGGTGAGAGCCCTACCAGGATGTGGAGTGGA  
CTTCCTAGCAGAGGCAGTACCTCGGC

Sequence 2981

TTCTAGTCACATCTGTTGTTGCAGCATGTTATCAGTAGAGCCTCCTTTTACTCTTAAAA  
ATGCCCTGGTTTGGATGATTGATCATACCTGCCCCATCCCCACCCACCACCCAAAAAG  
TGCAGCCACCCTGTGGTGTGCGGTGTACCT

Sequence 2982

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTATCAGAGACTCC  
TATTTATTTATACCAGTAAGGGCCCTCCCACTGCCTTTGTCTCCAGTAGGTGAGCTGCAT  
CATCAGCTTTAAAGCCCCCAATATTGCTGAGCTTGCTTTTTAAACTTCTCTTGCAA  
ACTTTATAAATTTGTTTCAGAGCACTATAATAAATATTTCTTGCAACATGGACTATAA  
GTGCCAGAGACACTGGAGAAATCTGAGGGTGGGAGAAAGGATAATCTATCAGCTTGNA  
GCTCCAA

Sequence 2983

AGGTACAGGATGCAACACTTCTAAAAATTGCTTCTGGGATTTCTGTAGATAAAAGCTAG  
TAAAAGACCTGAGAAGAGATTTTATTGAGCCTATAGCAATTTGGTTTCATACCCTGAGT

Table 1

AGTAACAGATATTACATTCAAAGATGCTTAATTACCTTCACAAAGTATGAAATTCCAAGC  
CTACAAATTGAATCAGCAATTCAAACCTTGAATTTGGAACCTTTTCATTATTTATGTGGACA  
TTCTATTAGCAGAGAACCAGCTATACTTCTTATTTCCATAGGAGAGAAAAGAGCACAAAG  
CAGAACAAGAGGATTCCCTACAGGTGTGGAAAGAAATATTTCCGCTTGGATATTCCTACA  
GTTACAGGAAGAACAACCTTAGGGAAG

Sequence 2984

GGCAGGCCAGTCTAACTATATAGCTTTCCCTTTCCAGCCACTTCCCTGATTCTTATGTCA  
TTGTCATACCTGGGGTTTGTAGTGCCTGCAATGAAAACCTCCCACTTGGAGTAGAGGCAA  
AGCGAAAATACACTAAGCTTAAATACAGGTTAGTTTTCAATGTCTGTGCCTCATGCCTTC  
TTTCTCATTTTTGCTACCCCTTTTCTCCCTTGGCATAGTGACATCGATAGTTCTTTCTAA  
TGACACTAATTGCTTCTTTACAACCTTACCAGAACTTTGAAAGTTGGATGTTTCTCT  
GAGGCAGAGATTTGAGTACCT

Sequence 2985

TCCGCCCCCTGACCGAGNCATCACAAAAATCGACGCTCAAGTCANTAGGGTGGCCGAA  
AACCCGAACANGGACCTATTAAGNATACCCATGGNCGTTTTTCCCCCCTGGGGAAAG  
CCTTCCNCTTCGNTGNCGCCCTCCTCTGTTTCCCGACCCCTTGCCGGCTTTACCCGGGA  
TAACCCCTTGGTCNCGNCCCTTTCTNCCCTTTNGNGGAAANTCGTTGGCCNCCTTTTTT  
TCATTAGGCTTCAACGGCTTGNNTAACGGTAATCTTCAAANTTTTCNGGNAGTTAATAGG  
TTNCGGTTTCCNCTTCCCAAANNCTTNGGCGCTTGNTGGTGGCCAACCANAACCCCCC  
CCCC

Sequence 2986

GGGCGAATTTTGCTCCANCGCNCTGGCGGCCGCCCGGGCAGGTACCTCCCTCATCTNAT  
GGAAAGAGGNTTATGAGAGAAGGGAGGGAGGCCTTTGGCAGCCAAGGGAAGACAAGTTTC  
AGGAGTTCATGAAGCACCATCCCCACCCCAAGTGAAGACCCTACCAGAAGGTCTTATGT  
TCTGAGTTATATTGAGTGACTGCCTCATTACCACTCCCTACTGTTATGTGGCAAGTGTCA  
GGGCTGTGGCAAGGGTCAGGCTATCATCATTGGCCCCCTTCAATAGACTGACCCTAGCATT  
AGGGCAACCATAAGTCCCTGTGTGCCAAGACAATCCTAGTTTACATCTGAGGCCCCAGT  
GTCATTAATAGTGACCTCCTTCACTCTCAAAGTTGTTCCAGTTTGGGCAATGAATT  
ATATGATCAAAGGCCCAT

Sequence 2987

CCGGGCAGGTACGCGGGGAGGCCATCTCGCTATAGGAAAGGAAAGTGGAACAGCATTTCAT  
CCTCAACATTTTACGAAGACAAAATGAAGACTGGAGTAGAAGACTGATCAGTGCAGGTG  
TAGCATAAAAGTGAATCCTGGAAGATGTGGTGTGAGAAGGTAGCACAAAGTGAAGTAGAG  
ATACAGGAGATAGGGAAGGGAAGCTGGAAGCAGAGGTCACTGGAGGGAGAGGGAGATGGA  
CACATTCAGGGCTACAAAGCAAGTTCTATGTGATTTGCTCACCTCTCAATTGTGGGACCC  
CTCAAATGTGTACCTCGGCCGCTCTAGAAGT

Sequence 2988

AGGTACCCAATCCAGAGGCACNATTTGCAATCTANNAAGAGCCCAGAGGAGAGGAAAATT  
GGTAATGAATCAGTGGGGAGTCCACGAAGGCAGAGGGCTTTGGCACAGCCCCAAAAGACA  
GACAGAAATGAGGCTCTCAGGACTCAAGAGGAGCCTCATTCCAGGCAGAAGAAGGATCAT  
GGAAACCACACAAGCGGGTACCTGCCCCG

Sequence 2989

CCGCGGTGGCGGCCGAGGTACGCGGGGACTCTGCACTGAGAGAAGCACTCAAACCACCA  
TCACCAATAGCGCTACTAAAGACAGTGTCTTTGGAGCTTCCAAGCTGATAGATTATCCTTT  
CTCCCCACCCTCAGATTTCTCCAGTGTCTCTGGCACTTATAGTCCATGTTTGCAAGAAAT  
ATTTTATTATAGTGTCTGAAACAAATTTATAAAGTTTGCAAGAGAAGTTTTAAAAAAGC  
AAGCTCAGCAATATTTGGGGGCTTTTAAAGCTGATGATGCAGCTGACCTACTGGAGACAA  
AGGCAGTGGGAGGGCCCTTACTGGTATAAATAAATAGGAGTCTCTGGTACCTGCCCCG

Sequence 2990

Table 1

AGGTACGCGGGCTAAATACTGTGCTCTGACATTGATGCTAATATTCCATATTATCAGGGC  
TTCTGTGGTGTTTAGGCCTCTAATTTTTCTCTTCAGTAAGGGGAATAACTTTGCTGTGC  
AGCGCAGTGCCCTCAGGAGGGTTGCAATCTAGAAACAGTGATTGTAAAATTGCCATATAAA  
CACACAATATAAAACAATATGCCACAGACACAGAGGCCCCCAGCATAGTTTCTGGAAGGTG  
AAGTCTCACCTCTGCCAGAGTAGAGTCACAGTGGAATTGAGGCTTGGCATCTGGGTGCC  
TCTGAAGCTCTTCCCTGTGGCTCCTGTTAGACAATTGACCCCGAAACACAGAAGATAGAGA  
TTGCACATTGCGTTCAGTAATTGTTGTTTATTATGTTATTTCTGA

Sequence 2991

GGGGCCATTGAGACTGCCATGGAAGACTTGAAAGGTCACGTAGCTGAGACTTCTGGAGAG  
ACCATTC AAGGCTTCTGGCTCTTGACAAAGAGACAAGGAGAAGGCCTTAGGATCTACTGG  
GGGAGTCCCGGAGGAAGCAGTCTCTTCTGTCCCGCTGGAACCCATGGTCCACTTGAAGTT  
CCTTATGCTACCTTTCACTTGAAGCATCCTATGGAAAATACACCAGTTGAGAAAAATTCC  
TTTTGAAAATTGCCAAGTTGTTCCCTTGGGGGTTTCAATGTTCTTAAAGGCCTTTTGTT  
TNCCAGNCNTATTCCCAGNAAATTGGCCCCACCAAAAGGAAATTTCCAAAACCTTGGGGA  
ATTCTTGGGGAAAGNAAGNGGAAAAAGGAAAAACCTTGGAATTGGGGTNGGTTTTAA  
ACCTTGGA AAAACCCCCCAATTTTTTTTGGAAATTTGGGANGGAAACCCCTNAACCAACCA  
AGGGGGGNCTTGAAATNGTTCCAATTTTNCCAATTTTGGGG

Sequence 2992

TTTGCATGCACGGACTTCTACATACATAATACTTAAACAGTTCATTGTATTGAAACACGC  
TTAAAAATGGCCCTAGCACTTGCTGCAATCCTGCTGTGTAGGAGTTAGCCAGGTTGTGTC  
TGCTCCCTCTAGACTATTCTATACATCAAGAACTAAAAAGAAGAGCAATCCCAGCATGT  
GGCTGGATGCACATCAAAGCCAAGTCTGTCATGAATTATTTTCCCTTCTGTTCCCTTCAT  
TCAGGTCATGAAGCACACATACTGCTACAGGAAAGGGCAAAAGGCAATGTCAAGTGCTGT  
GTAATTGNTGGGTTCTTTAGTGCAAAAGGCCAG

Sequence 2993

AGGTACTTTTTTTTTTTTTTTTTTTTGGACTGGAGAGAGAGAGATGTTTTATCTTTGCCA  
AAGCATGTGAGAGTAAGTAGCAAACATCATGACACTTCACCCCTCAAATATTTTCCCACG  
TATCACTTAAGAACAGGGCATTCACTTCTGTTACATGACCACAATACAATCAGCACAGAT  
AGATATTAACATTGAGACAATGCTCTGATGTATTGGTATCTACTATGCAGTTCATAATCA  
AATAAGGGTTTTGGTAACTTGGGATCCATAAATGGTCTGCAAGGTCAGCCCTGTANACC  
TGCACTTAGTGGGTGCCATTTCCCTGTCTCAGGTGCCTGCTCTACTGGTGATATTTTCA  
CTGGCTCTGTTGCTCACTTAAAA

Sequence 2994

AGGTACCCACAAGCATACGTAGAGCTGGCCTACCTCATTAATTACTATATCTGCAGTGCC  
TCAAATATACAAATTTTAAAAAGAAAAAAGTCATATGCTACTGATGGGGTATTGTATTA  
TCTGAATTAAATGGTAAGGAATTATTTACCATGCAGAAATCGTATAAATCTTTTTTGGT  
AGTAGGAAACGCTAAATGCTCATTTTCTTAGACTATGAGGCATGTCAAAGGTTGAAAAA  
GAAAGAAAGCATAGCTTACCTCCTTTTATAAGAATAAAAGAACTAAATAAAAAATTTTGT  
TCAAGTAAGCCTCTTTCAGGAAATCAAAGGATCAACACAGATTTAATTTACCTTCTGAA  
ACATCTACATCTGTGGTCTTTTACAATGAGAATGTGCCCAA

Sequence 2995

CCGCGGTGGCGGCCGAGGTACAAGGCCACTGATTATCTAGACCTGGCTTTCTTCTTCAGT  
CTCATCATCCATCCCCACCCACATTCTCTCTCCCATCAGGTTTGTGCAATGTTGTTT  
GGGATACTCTTCTCTCTTTGGAATCCCTCCTGTTTGAATACTCTTCTCTTCTTGCCTT  
GGCATCTCCTCACCACGCACGTTCTGCTAATTCCTAACTGCTTATAGATTGTGGCTTAG  
CTTTGACTTTTTTTCAGGATGCCTCTGCTAACCCCTAAATTC AAGGTAGTCCCGCGTACC  
TGCCCG

Sequence 2996

CGAGCGGCCGCCCGGGCAGGTACGCGGGGAGTGCTTCTGGTTTCAGCACACATGGAGATA

Table 1

TAGAATTGAAATTGCTCTGCTTTCTTTACAAATGACTCAGAGTGTGCTTGTCCCTCCCTA  
 AAATGTTGCCAGCATGTAAAGGATTTTCAATGAGCAGTGCAATAAGCCAGCAACTGGGAA  
 GGCTTGGAGCGGCACTGATATAACGTGGTACTGTCACACAGATAATCAGGGCTGGAGCCA  
 AGTCTCGGTAGCCGCTGTGCATTATCCTGGTCACATACTGGAAGTTTTGTTTATCCAACT  
 TGGTTGCTCTTGAAGCTGGTGAGAGCCCTGCCAGGGATGTTGGGAGTGGACTTCCTAGCA  
 GAGGCAGTACCTCGGCCCCGCTCTAGAAGTAGTGGGATC

Sequence 2997

GGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACAAGCCTATGCCAGCGTCAGAGCTG  
 CTTTTGTGCATGCCCTTGGAGATCTATTTAGAGTATCAGTGTGCTAATTAGTGCCTTA  
 TTATCTACTTTAAGCCAGAGTATAAAATAGCCGACCCAATCTGCACATTCATCTTTTCCA  
 TCCTGGTCTTGGCCAGCACCATCATTCTTAAAGGACTTCTCCATCTTACTCATGGAAG  
 GTGTGCCAAAGAGCCTGAATTACAGTGGTGTGAAAGAGCTTATTTAGCAGTCGACGGGG  
 TGCTGTCTGTGCACAGCCTGCACATCTGGTCTCTAACAATGAATCAAGTAATTCTCTCAG  
 CTCATGTTGCTACAGCAGCCAGCTGGGACAGCCAAGTGGTTTCGGAGAGAAATT

Sequence 2998

CGTGCCAGCTGCATTAATTGAATCGGCCAACGCCGCGGGGAGAGGCCGGTTTTGCGTTAT  
 TTGGGCGCTCTTTCNCGCTNTCCTCGCCTCACTGACTTCGCCTGCGNCTTCGGGTCCGT  
 TCCGGCCTGCCNNGCCGAAGACCGGNTATTCAAGNCTCACCTTCAAAGGGCGGGTTANA  
 TTACCGGNTTATTCCACCAAGNAAATCAAGNGNGGGAATTAACCNCCAANGGAAAAAGN  
 AAACAATTGTTGNAAGNCAAAAAAAGGGGCCCAAGCCAAAAAAGGGGCCCCAGNGGAA  
 ACCCGGTTAAAAAAAAGGGCCCCGCGGTTTTGGCTTTGGGCCGGTTTTTTTTT

Sequence 2999

CCGGGCAGGTACCTTGGCTACATGAAGACCACCAGCAGCAGCTGGGACAACCAGCACCCCT  
 GTGGAAGTGCACAGCATGCATAGAATACGTCTCCCTTCAGTTGGCTTGGGTGAGCTTAG  
 GTCATGGGCCACTTGGACTGATAGCAGTTTCCACAGAAATGCCTCAAGATGGTAGAATAA  
 TCCAGATCTCTTGCATGGGGCATGGTGTCCCCGCGTACCT

Sequence 3000

CCGGGCAGGTACCATAAATGTTGTTTCTTAAGAGAATGTCAAGTTTCAGTAAATTTACTN  
 TGAAGTTTANAGTAGTGTGCAATAACTTTGATAAATAAGCCGATCTTATGAAATTTGAAA  
 GTTACCGTTTTATAATTTATTTATAANAATTAAGTGNTTGAATTTTTCTGGTTTTA  
 AACCTTACCCCTGNATGTTTACCATTTATTTGGATTTTTAATTTACCATTTTACCAGNAT  
 TTTTATCTTTTNNCAAAAAAGTCAACGCCCTTTTACNTTTGGGGTTTTGGACAATCCATTC  
 NAGGCCTTTTAATTTTTCTTTGGCGAAATCCCTAATTTTTAAATCTGGAAGTACCTTTTT  
 TTCTTTGGCCTTGNTTTTTATTTCCCTAAAAANANTGGCCNANNAATTAATAATTTGGGN  
 CCTTTTTTCCAAGGCCAACCAACCTTNGTTTTTTTAATTAANGNNTANTTTAATTAAGG  
 CCCT

Sequence 3001

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTGAATG  
 CTGTGTGGAGTCCTTTTTCTACTTTTGTTCCTGAGAAAGAGAGATTCACAACTTCCCAC  
 ATTCTTCCAGTGGCATCTAAGGATCCCTTCTCTAAATGGCCTTTCTCCAGCCAATAGACT  
 GAAGCAAACCATGTCCCTGATGCTTCTGCCACCACCATCCATTCTTTCAACCAACAGC  
 TTCTCCGGGCTTTACGTGCCATGCATTTGCTAAGAGCTTGAGGGAAATACAGCAATGA  
 AGAAGAGATGATTTCTGTTTGGACCAAGTGTCTCAGGGATTCTCTATTAGAAATCAAAGA  
 GGCTTCCAAAAGCCCTACAATTTTTTCCCTGTAATAAGAAAATAGCTTCTCAATGTAA  
 CTAAA

Sequence 3002

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTT  
 TTTTTTTTTTTTTATGCGACAGAGTTTGTTTTATACTGCCTCATAATTACCTCTTTT  
 CCTTTTTCTTTCTTGTACCTTGGTCAAGTTTCCCTTATTTTCTTTCTTCTATTNAAC

Table 1

TTTTTCTATTAATTCANAAGTTTTAATTTGCTTTTCCAGTTTCCTAGTGTGTTGATTCCC  
ATCCTGAACAATCTCTGTATTTTCTTTTATTATATCAGAAGTCTCTCTGTAGTTCAGGT  
GAATTTATAGACAGTCATCCTTACACTACCTATATAAAAT

Sequence 3003

CCGCGGTGGCGGCCGAGGTACTGGGGGCTCCTAAACCATATATATCTTGCAACCATTCTGG  
GGATATTTGCCAGGCCTGGGGGATCAAAATATACCCCAAATATTAAACCAGTTGAAGGT  
GATTTGAGCCTACTTTTTGAACACTTTGTATCCCCTGTGTGCCAAGGAAATTCAGGGTCT  
TTTTCGTAACCTTGATCAGATGTCTCCCAGGTTGGGCTACACAC

Sequence 3004

CTTAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCACAGCTGCATCACACTG  
AATATCATCTNCCTGCACTGCCATTTCAATTTGAGCAGGGCTTTGCCTGTCAAGAACATTC  
ATATCTTTTGATAAACAGTGCATTTTTTCCCTGATAGTCTGTATGGGACAGCCTCCTTGT  
TTGCATCTGAAGGACAGGGACTTCAGGACCTCCTGCTGTGGTCACCAAGGAATCACATTC  
AACTTCTCAGCAAGGTGTTATGGTCTTCTCANTTTGCCTACNATCCATTGAGGCAAAG  
GTTTCCTTCTCTCAATACACCCTCTGCTTTAGCCAGGGGGACCTC

Sequence 3005

CCGCGGTGGCGGCCGAGGTACCATTTGACTACTTCATACTGCTACAAAATGCATTTGAAAT  
TTTTTTTCTGGCCAAGGAACCTATTCACTCACTCTCTCCAAATTAATACTTACTAGAGA  
AATGTTGGCACTTATTAACCTTGAATATGAATTAGAAACAACTTGACCTTCATATATT  
CTTTACACTTATGAATCTATTTAACTGCATGATTTATCTGCATGATTGAGAAATTTCTT  
GATACCATGTAAGTGAAGTAAGATTTAGAAATATATTTTCTTGATACCCTGTAAGTGAAG  
TAAGATTTANAAAGCTGAGGTGACAGTTGTACCCATAATGCTGATAAATATAGGAATGA  
GTGATTATAAATTTAAACCTTTTGTGGCATT

Sequence 3006

GCCGTGGCGGCCGCGGGGCCATTGAGACTGCCATGGAAGACTTGAAAGGTCACNGTAGCTG  
AGACTTCTGGAGAGACCATTTCAAGGCTTCTGGCTCTTGACAAAGATAGACCACTGGAACA  
ATGAGAAGGAGAGAATTCTACTGGTCACAGACAAGACTCTCTTGATCTGCAAATACGACT  
TCATCATGCTGAGTTGTGTGCAGCTGCAGCGGATTCTCTGAGCGCTGTCTATCGCATCT  
GCCAGGGCAAGTTCACCTTCCCTGGGATNTCCCTTGGACCANGAANACAGGGANGAAGGG  
CCTTTTANGGATTTNNNTTTGGGGGNGGTCCCCGGAANGGAAACAGTTTTTTTTTTTTT  
GTCCCCCNNGTGGGAAAACCCAAATGGGNNCCCNNTTGAATAATTTCCCTTTNAAAG  
GCNTCCNTTTTGGCNACGNGGGCCCNNTTCCCTTTNNTAAAAAATANCNCCCCCGNGG  
G

Sequence 3007

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGCAAATTTAC  
ACAGTTTTCTTAGGAATGCTCTTTCTTTTTTTTCTCTTTGGACTCTACATTCCTGTAGC  
TCCTATTCTTCAAGGGCACAGGGGCTTACTTAAACATAAAATTTTACAACCTTAAGTGA  
GGGTGCCCTGCTTGCAAATGGAAACTGCCACAGAGCANACTTAACTGCAGCAAGCAGGT  
GACANAGCAAGGAACAGGATCCAAAATTATGATTTTTTGNNGNGCTACTGAAGTAAAGAA  
TTAAGAAGGTTTTACTCAGGGTCATAGGCTGGGTTGGAANACTGGGAAAAGGGAAATCA  
GTAGTATCTATATCT

Sequence 3008

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGGGGCCATTGAGACTGCCATGGAA  
GACTTGAAAGGTCACGTAGCTGAGACTTCTGGAGAGACCATTTCAAGGCTTCTGGCTCTTG  
ACAAAGATAGACCACTGGAACAATGAGAAGGAGAGAATTCTACTGGTCACAGACAAGACT  
CTCTTGATCTGCAAATACGACTTCATCATGCTGAGTTGTGTGCAGCTGCAGCGGATTCTT  
CTGAGCGCTGTCTATCGCATCTGCCTGGGCANGTTCACCTTCCCTGGGGATGTCCCTTGG  
ACAAAGAAAACAAAGGGANNAANGGCCCTNAGGGATNTACTNGGGGGGAAGTCCGGGNG  
AAACCAATTTTTTTTTT

Table 1

## Sequence 3009

CGACCCCGCAGGCCGAGCACCTACAGCATCGGCCAGCAACGCAATTTCTGTCGTGACCAA  
GGGCGCACAGGTACCGATCCCGGTATTCGGCTCGGTGGTGGCGAATACCAGGGCCTTACC  
GGCCGGCATCTACACAGACACCCTGACGGTGACTCTGGATTGGTAAACATGAGGATGGA  
CATCATGCATGCACCTGTATCGAAAGCAGTTTTTCCATTGGTGGCGCTGGTGTGGGTATC  
GGGCATCCAGGCAGCCACCACCGTGACCGGGCAGATCAGCTCCACGCTGATCCTGACCAA  
CAGCTGCCTGGTCAACGGCGTGGGCGGTACCACCGGTTTGAAGTTCGGTACGATCAATTT  
CGGCACCACCAACAGCCAGTTCACCACCCAGTCCGGCCAAATGCTGGGCGGCGG

## Sequence 3010

GACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCTAAACTCAGA  
TGGCTTATGACTAGAAAAGTCCACACCTTTTAAAGACGCAGCTGCGTTCCCTCAGCTGTC  
AGGCTTGCTATTTCGCAAACTCTGTTACAAGACACCATCTTAGAAGAATGTTCTGAAAAA  
GCAAGATGCAATCAAACAAATATGTCGCCATAATAGGAAGAAAAGTCTTAGTTGAAATC  
TGATTTCTTGGGAAACATTTTAAATGTATTTCTTTCAAAAATAAAAATATAACAAAACA  
AGAAAAGAACTACCTTCGAAATAAATACTCGGAAATTGCAGACTTGATTTAGATTTCT  
TCCTAGGAAAGAAAAACGTTTAAACCAGAATCATAGACACCTATAGCTGGAAGTGCCG

## Sequence 3011

GGGCGAATTGGAGCTCCCNTTTTGTGGCGGCCGCCCGGGCAGGTACCAGTTTTATCACNT  
AAATGCCGCAGGAATAANTNTGATCATTTACTTAGATTACTGGGCTTTTTGTGGCTTCT  
TTGTTCATTTTAATCTGCAATATAAAGATTGTGTTCAATTTCTTAGTTGAACAT  
GAAATGATGGAAGAAGACTTCACTTCCAGGAGAGATTTATTAGCTAGTGGATACTCAGT  
GCTCCCAACAAAACCACTAGAAAAAATGTATTTAAACAAATAAATCAACTAGTTCAAG  
GAAATAGAGAGCTGAAAAGGCCAAGAGACCTTGCGAAGTAAAGACTCCAGATAAGGCCAAC  
ACTTAGTGAGGTGAAGTGAAGTCTTTAAAGACTTTATCCTTGGATGCATTTCAATTTCTGG  
GCATGTTT

## Sequence 3012

CCGGGCAGGTACAACCACCCCCGGGTATCCATAACCTAACAATAACAATTGTTAAGCAT  
TCGGCCACACATGTTTCTTCAGCTCCCCACCTCCTCCCTATCCTCCAGGTTCCCACTG  
AATTATATATCATTTATTCATAAATAATTCTGTATTTAGTTACAGCTCAATGAATTC  
CACAAAGTGAACATGCTCATGCAACCACACCTGCACTGGGAAATAGAAATTACAAACAC  
CCGGAGCCCCCTCTGCAATACTCTCTCAGTCCTTTCCTCACTCCTTCCAAAAGAGTAGCT  
ACTATCACCTATTGTGAACCTTGCAATATATGGATTATAGAACATGTGTATTTTTTG

## Sequence 3013

CCCGCGGTGGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGGAG  
TNTTTAAGATTATCTCTATGTTGGCTGGCTGCGGTGGCTCATGCTGTAAATCCAGCACT  
TTGGGAGGCCAAAGCGGGAGGCCAACACTGGGGCTACCCAAGAGTTGACCAAAGGTGATA  
TTAATACATATGCTTACTTATTACCTTGTCGCACAGTTCTANTGTAAGTCTTGAAAAATC  
AAGTAAATTTGAAACATANTTGCAAACTCTCTCATGAGTACACAGTTAATCCAGAA  
TATTATTTNTAAGTTATCATAAAGCCAACAAGCAAATATGATGTACCT

## Sequence 3014

GTGGCGGCCGAGGTACGCGGGTCTCCAGCCCCCTCATGGGAGCCGGAAGTCCCTGAGACTC  
AANAAAATGCACCCGTCTGCGTTCCTCCTGCCGTGGGGTGACCCATAAGGAACACCCCCC  
CCTTCTCAACAACCACAGAAATAAATGCCAGGGGACCAACATGGGCATGGGGCTGT  
GATGCCAATCTTAAGGGAAAACACAAGTAAATTTGCTCCAGNACTGAGCTGGGGGCGAGCT  
TGCTCTTTCTTGCCATGACTTTGAGGCGGGATCTCGAGCGTCTGTCTGACGGGCCTTCT  
GTCTGCTGTCTCTCCAGGTTTTCAGACATTGAATTCAGGATTGCAGCCCTGANGGCCCGC  
AGGGCTCACNGTGAAGCCCTCGGGAAAAGCCCCGGA

## Sequence 3015

CGCGTATACGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAT



Table 1

CTCTGTTTCTGAGGAAGCAGCAGAGGAGCCTATGTGATCCAGAGAACTTGTTCTTGGCTT  
CTGGAAGCAGAGATGCAGGAATGGACCAATAAGGCATTAAACAAATTCATTAGAATCTC  
AAGAAAGAAATATCTAACAGTATAATCATAATAACAAAATTTTGATTTCTTCAGAAGCAC  
TCCAATAGCTTCACCCGCATTAGCTAATCTTGTGCAGTGAGGAGGTGCAATTCCCTCTAG  
TCTCCCGCGTACCTGCCCG

Sequence 3016

CCGGGCAGGTACACAGATCCCAGTTATCAACATAGCCAGATGGCTGGTGGTAGAAGCAAC  
CCTGTCCCTGTAGCACCTCTCTGTGTCCTGCTCAAAAGCATTAAACATCATTCTTAGAT  
AAGAACAGAGACAAAGGATATGTCTTTAACACTTTACAGTCTATAAAGTTTTTCCACAGC  
CACTGTCTCACTGAATCAACCCCTAAGAGACAGAAATGAAAATCGCTGTTTTTACAAAT  
GAGAAATTACGGGCCTTTGAAGTGTTTACAGCCTTCACAGCCCGCTGGTAAGAAGCAGA  
GATCAGGCCTTGGACCTGGGTCTTGTGATTCCAAAGCCCATGATCCTTCGGATTCATCAA  
GGCTCCACTCCAAGTGCCTACTGGGGACTGCCT

Sequence 3017

AGCTCCACCGCGGTGGCGGCCGANGTACGCGGGGAGAACACCAGGTGCTGTTCTCAACAA  
CGTCCGGCGCTTGACCAAGTGCATTGAGAAGGTTGGTCCCCAATAACATCTATCTCAAGAC  
CACTTTCCACAGCCTTTTAATCTCCCACTCCCACTCCTCTCTCTTTGTTCTCTTTCCACT  
CTGACGAATTAATTTAGCCCTTATTCTTTTTCTTGCTTTAGAAAAGTTCCTCGAAGTTT  
AGACGTGTANAATGTTAGTGTCTCANCNTATNTCGCCCAAATCCCTCCTTTTATAGGTG  
CAGAGACTGAGGCCACAGAGGTTAAATGCCAGGCTCAAGGTGGTACCTTGCCCCNNGGT  
TTTT

Sequence 3018

AGAAAGTGGCGCAGCAATGGAAAGTGTGCGCGAACAGCAGGACGCGTTCTCCGTTGAAT  
CGCACCGCGCGCCATCGCCGCGCAGCAAGCCGTTTCTTCAAGGCCGAAACGACGCCCG  
TCGAAATCATCACGCGTACGCCGAACCTGGCCACAGGCCAGGTGGACGTATCGCGCCGCA  
CCGTGACACCGACGAAGGCGCGCGCGCCGATTGACGCTGGAGTCGCTGGGCAAACCTGA  
AACCCGTGTTTGCCGCCAAGGGCACCGTCACGGCCGCCAACAGCTCGCAGATGTCCCGAC  
GGCGCCCGGTGCGCTGCTGATCGTCAGCCGAAAAAATCCTGCGCGAACATAACCTGACTC  
CGCTGGCGAAAATTCTTCTCGTTGCGCGTG

Sequence 3019

AGGTACGCGGGTGACTGAAAAGGGCACAGGAGAACTTTCTGAAATAATAAAAATGTCCTA  
TATCTTGTTTTGCATCGTAGTTACACAGGTGTAGACAGTTGCTAAAACGCTAAAACTAA  
ATGTGTAAGATTTATGCATTTTAGTGTATTTAAATTATAACCCCAAGCAAGCATTGCCTC  
ATTTTTCTGGAGGGTAAATATGCTCGTTAGGAGCATAAGGGGATGATTTTGAGAAACCC  
TTGCCCTGTCAATTCTGTCAAGTAAACCGCCACTAACTTTCTGGTTTCAAAAAAGCAAGGT  
CCATTGATGAACTCCTTTGTGCTTAAGTGACAAATAACATTGATAAGGCCTACTGTCA  
ACAAGGAGTGTGGTTTGTATAT

Sequence 3020

CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGCTCTGCTTAAACTCTTCAGAGGTT  
CACCATCGCTTCCAGAAAAAGATCAATACTCCTGACGTGGCAACCTGTCGAGACTCAGGA  
CCGCTAGGAAATCAGCTCTTGTTTACCCCTCTATCCATTACACTACGATCCAGCTGGGTT  
TAGGCATCACTTCTCTGAGCAATCCTCCCTGATGTCATGAGGCAGTGCTGAGTGCCTTC  
TCTGGACCCTCTGTTTACTTGCTGTTAAATCCTGAACATC

Sequence 3021

AGGTACAAGGCATTTTTGCTAACTGTAACCTCCCACTTAATCAACAAAAACAAAAACACT  
CATTTCTGAACATTCAGTGCAATTCATGATTAATCTTAATTACACCACAAAGGTATTTTTC  
AATGGTGATTTTGCGGGAGTGGGGTAACAGTTTCGAAAGCAACATTGTCAGAAACATAGT  
TGATTTTAAAGGTTCTTTCTGGTGACTTTGACTTCTGCTTTTTTAGAAGACCTTACACAG  
AGTTGTATTTATTTCTCCTGGAATATTTCAAGCAATTCAGAGTGAAAGGGGTATACATTC

Table 1

CAATTTGCGTATGAGATAAAATTTTAGTTACATTGAGNAAGCTATTTTCTTTAGTTACAG  
GGAAAAAATTGGTAGGGGCTTTTGGAAAG

Sequence 3022

ACTACTATAGGGGCGAATTGGAGCTCCCCGCGGTGGCTCTGATCCTAGGATTTTTTTTT  
CCCTGCTTTGGCTGCCTCTGTTTTGGTTTCATGTGTCAAGCAGAGACGGGGAAAGCCAAAC  
GACACAATGAGCGTTCTCAGAAAGGAACTTCTTCGGAATGAAAAGCTTTGGCCACATTG  
GAAAGGGTAGAAGTCTGAGAGAACTTTTTCATCAGGGAGACTAGGTCGATGTCTTAGTC  
CTTTCAGGCTGCTGTAACAAAGTACCT

Sequence 3023

TATTCACAGAATCAGGGGATTAACCGCAGTGAAAGNAACATGTGTAGCAAAAAGGCCAN  
TCNAAAAAGGTCCANNGTAACNCTNTAAAAAAGGGCNCGAAGTTTGCATGGNCNGTTTT  
TTTTNCACAATAAGGNCCTCCGNCCTCCACCCCTGGACNTAGGCCATTCAACAAAAAA  
AAAATTCNTACGGCNTTCAAAAAGGTTCAAGTAAGGGGTGGGNCAGNAAAAACNCNCC  
GNACCAGGGGNACCTTAATTA AAAAAGGAANTAACCCCAAGGGGCCGGTTTTTNCNCCN  
CCNNTTGGNGGAAAAGGACCTTCCCTCTTTTCGTTGGCCGGCCTTTCTTACNCTTGGT  
TTCNCGGAACCCCTTGNCCCCGNCATTTTAACNCCGGGGAATTAACCCNTTGGGT  
CCCCCGCCCCCTTTTTTNCCTTCCCCCTTTTTCC

Sequence 3024

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGAGGGCAAGGAAGGAATTT  
TTCTGTAATTTGGAAAAATGGGAAGTGTGAGAAAGAAGGAGTTGGAAGCTCATACTTAGG  
GAGCATCTACAAGGACGTCTTTTTCAGTTGGTTGGAATATCAAATCAAGGATTATTT  
AGAATACCCAGATGATTA AAAAAGTACTGAGATCCAGGTTGATTTTCAGCAGTTCTGAC  
AATTGCTCTGGGTCGAAGCTTGAATCAGTAGTTAAGAAAAACAACAAACAAAAACAATTT  
TGGGGCTTTTCTCACTGATTTACAGTTAAAGCTCATTTACTCTTCTATGACTTTAGATG  
GAGGATATTTNCAAGCTTTCAGGATGGAGACATGGAGGGGAAG

Sequence 3025

CCGCGGTGGCGGCCGAGGTACACTCCAGTATGTAGATAACTTTTTGTGTGTAGCCCAACC  
TGGGAGACATCTGATCAAGTTACGAAAAAGACCCTGAATTTCTTGGCACACAGGGGATAC  
AAAGTGTTCAAAAAGTAGGCTCAAATCACCTTCAACTGGTTTAATATTTGGGGTATATT  
TTGATCCCCCAGGCCTGGCAAATATCCCCAGAATGGTGCAAGATATATATGTTTAGGAG  
CCCCCAGTACCTGCCCC

Sequence 3026

AGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTAAGGGAATGACTGAGTAGTCACAAATT  
CAGAGAGCTGCTGGGAGGTAGATGAGTTGGGGCTGGGAGGTGTCCATGGGATTTGGGGGC  
TTGAGGGTCACGGTCACCTCAAGACAGCAGGATGGGGTGGAGAGCANGTGAGGGGCGATC  
AGAGAAACAAAGGGAGTGAGTGAAGGCAACTCTGTCTTTGAGGGGACAGCAGAGCAAGCA  
GGCTGAAGGTCTGGGCGCAGAATGTGGTGCACAGGAGGTGGGTGGGAGGGAATTTACATA  
TTCACCCATCTGACCTGCTTTGTGACCTTCTCCAATATTTGTTGTAGNAGAAGAAATAAG  
AGAACACGTGTGGCCAGACACCATGGCTCATGCCTGTAATCCCAGCACTTTTAAGGG

Sequence 3027

AGGTAAGTGTGAGGGACTCACCATAGATCTGAGGGAGGAAGGAGCTTAGATTTGGGAAAC  
ACTGGGGTGGATCCCTCTTCTGTTGAGTAGGGGCACTTAAGACACCTGCTGTTGTGTTG  
TTCTCCAGTGCTAGATCCCAGAACAAAATTACTTCTCCACCACCTTTTCAGATTTCTC  
CTTTGGTTGCCTCTTTCGTTACTTTTCAGGGTTTACAGTTGAATTAACAGGTGGGAAGAA  
AGAGGTCTCTGCCATCTTTCTATACCAGAAGTCTCATACAGTGTATTCAATAACACTAT  
TAATTAATAATAATACTATTACAATTAATAATAATTACTTTAATTATTATTTTCATCT  
GTGTCTTATTTTATGTGTATTTTACCA

Sequence 3028

CTATACACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTAAGAGT

Table 1

GTGGCCTGAACCCAGCAGGGCCTTGGGTGAGATCTCAGCTCAGCTACTTCATAGTGGAGA  
 CACCGTGAGAAAGCTATGTAACCTTCTCCAGGCCTCAGCTTCTTCAGCTGAAAATGGAGCT  
 TAACAAAAAGCACTTTCCTCATAGGGTTATCATGAAGAGTAAAGAAATCAAGTAAGTTT  
 AAAGTGCTTAGAACAAAGTGCTNNGGTGCCTGGTCATTACTTCATTAAAGTGGTTAAACCT  
 CATTAAACCAGTTTGTNNACCCTTGCCCCGGGGCGGGNCCGTTTTTAAAAACTAAAN  
 NNGGGAATCCCCCNGGGGCTTGGNAAGGGAAAATTTCCAAANTTTTCAAANCCTTTTT  
 TNCGAAAANCCCGTCNAAACCCTTTTAANGGGGGGGGGGGCCCCCGGGAAANCCCNAA  
 CTTTTTTTTNNGGTTCCCCCTTTTAAG

Sequence 3029

CCGCGGTGGCGGCCGCCCGGGCAGGTACAAAAATGACCGCAGCAGCATATTTCTAAGAT  
 CCCTGAAAACAGCTAAGATCCCTGAAAGCAACTCAAATGTCCATCAATAGAATGATGGAT  
 ATTATTCTACCCCATTTGAAACATTTACACACAAGTTTTGTGTTTTATTTTATTTATTT  
 ATTTATTTATTTTTCATGTCAATGAATCAAAGGAATCACACATAGTTTTTGTATAGAA  
 ACAGCACTACATTTCTGTAAGGGGTGCTTTTTCAAGATATCTGTGTTCACTAGTTGTAGC  
 CTGCGACTGGAGGGCTCTGTGTCAAGCATTCCACTTGCTACTGATTCTACCATAACCCCT  
 CTTTGTCCCAAGAACATTGTACCTCGGCCGCTCTA

Sequence 3030

CCGCGGTGGCGGCCGAGGTACGCGGGTGTGCAGCCACAGTGAGCTTCTGAACATTTCTTC  
 TCAGACTAAGCTCTTACACACAGTTGCAGTTGAAAGAAAGAATTGCTTGACATGGCCACA  
 GGAGCAGGCAGCTTCTGCAGACATGACAGTCAACGCAAACTCATGTCACTGTGGGCAGA  
 CACATGTTTGCAAAGAGACTCAGAGCCAAACAAGCACACTCAATGTGCTTTGCCCAAATT  
 TACCCATTAGGTAAATCTTCCCTCCTCCCAAGAAGAAAGTGGAAGAGAGCATGAGTCCTC  
 ANATGGAAACTTGAAGTCAGGGGAAAATGGGNGGCTTCACCAAATTATTTTGNCGATGG  
 GGGTTTTAAAGTTTTTTCCCTTTGGNAAAATTAAGTTTCNANGGGTTTGGGCTTT

Sequence 3031

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGCCCTGAGCTGCATCAT  
 TTAAAGACCAATTGTTAAGGACCAATCTGAGGGCCTGTGCATTAGTTAAAACTCCTTATC  
 TGGTCATAGAGGGTGGTGTGGTTTGGACGCGTTCCCTTGTCTGTGCAATCCCAACAGA  
 GGCAAGTGCGCATTGAGACAGGTTGAGGGTTCAAGCTGTCCAATCCCTGCTCATCTG

Sequence 3032

CCCACACACACAGGGCGCACGCAGGCACACACTGCAGACACACACACATAAACACACA  
 GAGTTCAGTAGTCCGAGTTACTGATTTTCTTAGGATTCTCAAAGTGACAACACCGGAAAC  
 AAGGTAATTCATGTTAAACACAAGGGTTATATCAGTAAGAGATGGGATCCCCGAAGTAA  
 ACCGTGGAATTTGAATCAAGCTTNGAAGAGCTAAAAAAGAAATTGGAGTTTCAACATTN  
 ACCTTCTTGNA TCCTTAAGAAATNCAGNAAGTTCAAATAGAAAACNTTACAGTTTTTNG  
 GATNCCAAAAGGTTNGAAAACNTTTTTGGGGGNATTTAACCCTTNCANTTTTTTTAA

Sequence 3033

CCGCGGTGGCGGCCGAGGTACTGTCTTTTGAAGCAGAAAGGTAGAGCAATCATTAGGGT  
 GGCACGAGG/3CATTGAGAGTGCTATGCATTGTCAATTAAGTTGTAGTATTAAA  
 GACGGCCCACGGGTGTGCATCAGGCTGTATGGGTAGGAATATTCTAGAGGTTTTCTTTC  
 CTGGGCTT/ATTCCCCAACCAGATAAAATACCTGATGTTTAAATTTTGGGTTTTTAAAA  
 AAATCACCC/CAAGAAACCTTCTGTTTAAACAAGTCCCTATATGTACCTGCCCCG

Sequence 3034

ACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGAGATT  
 AAAGCATAGCATGTCTACCTGAACATCCTCAGATCCTGCTGACATCACCAGTGAGGTCC  
 TCTGCTGATTGATATAAATCATTTTCAAATCCAGCAATGCATTGATGACTGTTAATTCCA  
 TGCTCCTCAAACTTGCCAGAAATGCCTCTAATAGGTAAGGGAAAGAGAAGATACCTCAG  
 TATGTATCCTATGGCAATGCATCTCAAAAATGATACTTATTTAAAGACTCTGTTTTTAGG  
 TAAAAAGAAATTATTCAAATGTATTCTGAAAATGTTATTGGTTTTAATATAAATGATAT

Table 1

GTTCTCCAAAATCTTTAAGTGGGGGATTGAAAAGATCCCAGGGAAGAATGTTATTCTTGG  
ATATTCTTGGATCATT

Sequence 3035

CCGCGGTGGCGGCCGAGGTACATTGACAGTGCTTCTGGTTTCAGCACACATGGAGATATA  
GAATTGAAATTGCTCTGCTTTCTTTACAAATGACTCAGAGTGTGCTTGTCTTCCCTAAA  
ATGTTGCCAGCATGTAAAGGATTTTCAATGAGCAGTGCAATAAGCCAGCAACTGGGAAGG  
CTTGAGCGGCACTGATATAACGTGGTGCTGCACACAGATAATCAGGGCTGGAGCCAAG  
TCTCGGTAGCGCTGTGCATTATCCTGGTCACATACTGGAAGTTTTGTTTATCCAACTTGG  
TTGCTCTTGAAGCTGGTGAGAGCCCTGCCAGGAATGTTGGGAGTGGGACTTTCCTAGCCA  
GGAGGGCANGTACNCTGCCCCGGGACGGCCCCGCTTCTAGAACTAG

Sequence 3036

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACCACCACG  
CCTAGATAACTTTTTGTATTTTAATAGAGACAGATTTTACCACGTTGGCCAGGCTGGT  
CTCAAACCTCTGACCTCAAGTGATCTGCCTGCCTGGGCCTCCCAAAGTGCTGGGATTACA  
GGCATAAGCCAGCACACCTGGCCGTTAACTAGTTATTTTAATCATGCTACACAAAGAAG  
ACATTTCTCCAAAGGAAATATATAAAGGGAAACACTGTTGAAATAAATGGAAAGCTAAAA  
GTCTCAGCATAGAAGCTATAAAAAGAAACAAGTGGAAATTGTAGAAGTAAAAATACAAAT  
AANCAAAATTTACTGGAAGTCTCAACANCAATGAAAGATTGACTGAGGGGAAAGGAGGT  
CAGTAAAAATTTGAA

Sequence 3037

CCGCGGTGGCGGCCGCCCGGGCAGGTACAAAAATGACCACAGCAGCATATTTCTAAGAT  
CCCTGAAAACAGCTAAGATCCCTGAAAGCAACTCAAATGTCCATCAATAGAATGATGGAT  
ATTATTCTACCCCATTTGAAACATTTACACACAAGTTTTGTGTTTTATTTTATTTATTT  
ATTTATTTATTTTTCATGTCAATGAATCAAAGGAATCACACATAGGTTTTTGTATAGAA  
ACAGCACTACATTTCTGTAAGAGGTGCTTTTTCAAGATATCTGTGTTCACTAGTTGTAGC  
CTGCAACTGGGAGGGCTCTGTTGTCAGGCATTCCACTTGCTACTTAGTTTCTACCATAC  
CCCTTTTT

Sequence 3038

CCGCGGTGGCGGCCGAGGTACACCGCACACCACAGGGTGGCTGCACTTTTTGGGTGGTGG  
GGTGGGGATGGGGGCAGGTATGATCAATCATCCAAACCAGGGCNTTTTTAAGAGTAAAG  
GAGGCTCTACTGATAACATGCTGCAACAACAGATGTGACTAGGAAnnnnnnnnnnnnnnn  
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn  
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn  
nnnATCATAGGTCATAGCCTGTATTCCTTGAGTGAAATTNTTATCCCGTTACCAATTTT  
CCACACNAACAATACNTAGCCCGGGGTAGCCATAAAAGTGNTAAAAGCCCTGGGGGGTT

Sequence 3039

TANGGCGAATTGTAGCTCCCCGCGGTGGCGGCCGAGGTACCAACTGAAAAATAAGACAAC  
CAATCCCATCATGGTGCCAACCACTCTAGTTGTCTTGGGCAAGTCACTTATTTATCCATC  
TTGGCTTTCTTGCTCAAAAATGATGGATAGCTACACCTCACAGTGAGGATTCAGTCATGT  
AAGCAAAGTGCCCTTGAAGACAGGAAGCCAGACATTATAGGGGCATAATTTTGGCCCTGAA  
ATGCATTTGGTATGGGTTGGGCATCAGATGTTTCTGATTTGTGAATTAGTCTGAGAATGT  
TAGACATGCAATGGTTTAAGGATTGCTAGGAGCAAACAGAACCATGTTGTGTGTTTATG  
GGTAATCAGCCAGTTTGGCAAACCACCCAGTGGGCTGGAACTTGTTACCCTGCCCGGGG  
NCG

Sequence 3040

CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTTGTGTG  
GGTGTCTTACCTTGCAATAGAATATCCTAGGCCCTTCTAATTCTTCTCTTGAATCCCT  
GTGTCACTCATCTGAGGTCATCTTGGATTTAAATACATTTGGTCTGAAATTCCTCAAAC  
TGCTGAATAAAATGCCATAGTAAGTCCAACATATATGGTTTCATGTAGGGTAAAGTAACCA

Table 1

TTGTGGAAGGATTACGATAAACTGTGTGACAATAAATAGAATAAAAGATGGCAAAACAA  
TCTGTAAATTACAAAGTGTTATAAAAATGCATTGAATTTCTAGNGGTTCTTACACTTTCA  
TATTTCTCATTGGCACATCAATCAGACCTTGCCCTTCCTTAAAGTGGGGGAGGGAAGNAA  
AAAGGGCTG

Sequence 3041

ACTNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGACGCGGGGAGTGTA  
ATATTTATGTGGCTTTTCTCCTCGCATTGCTAGCATGAATGCAGGGGCATGAAAGTCTG  
AATAGGGCTTTCAACCATCACCTGGGGCTTAGAAAATGAAAATCAGAGTTTAGGATACCG  
TCAAAAAGGGCCACATTGTAGAGTGGATAGCAATCCATTCAAAAGCTCAGCACTAACAA  
TATTAACTTCAGATTTAAATCAATTCAATTATTGATTCAAAAAAGTTAATGCGACCTTA  
TCATAACTCCTGGCCAAAAGAAAATATCACTTCTTTTGGGAAGAATATAGCATCATTTAG  
ATCCTCAAATGAATGGCTACACATGGGTGAGCCGAAAGTGTTTAACCAGGCCAATTCA  
AAAATAATTCAAG

Sequence 3042

CTACTATAGGGCGAATTGGNTCTCCCCGCGGTGGCGGCCGCGGGCAGGTACTCACAGC  
TGCATNACACTGAATATCATCTCCCTGCATGCCATTNATTTGAGCAGGGCTTTGCCTG  
TCAAGAACATTCATATCTTTTGATAAACAGTGCATTTTTTCCCTGATAGTCTGTATGGGA  
CAAGCCTNCTTGTTCATCCGAAGGACAGGGACTNNANGACCTNCTGCTGTGGTCACCA  
AGGAATCACATTCAAATCTCAGCAAGGTGTTATGGNCCTTCTCAGTTTGCCTACGATC  
CATTGAGGCAAAGGTTTTCTTNTCTCAATACAC

Sequence 3043

CTATAGGGCGAATTGGTNTCTCCCCGCGGTGGCGGCCGCGGGGCCATTGAGACTGCCATGGA  
AGACTTGAAAGGTCACGTANCTGAGACTTCTGGAGAGACCATTCAAGGCTTCTGGCTCTT  
GACAAAGATAGACCACTGGAACAATGAGAAGGAGAGAATTCTACTGGTCACAGACAAGAC  
TCTCTTGATCTGCAAATACGACTTCATCATGCTGAGTTGTGTGCAGCTGCAGCGGATTCC  
TCTGAGCGCTGTCTATCGCATCTGCCTGGGCAAGTTCACCTTCCCTGGGATGTCCCTGGA  
CAAGAGACAAGGAGAAGGCC

Sequence 3044

CCGCGGTGGCGGCCGAGGTACAATTTGCATGCACGGACTTCTACATACAGAATACTTAA  
CAGTTCATTGTATTGAAACACGCTTAAAAATGGCCCTAGCACTTGCTGCAATCCTGCTGT  
GTAGGAGTTAGCCAGGTTGTGTCTGCTCCCTCTAGACTATTCTATACATCAAGAACTAAA  
AAAGAAGAGCAATCCCAGCATGTGGCTGGATGCACATCAAAGCCAAGTCTGCCATGAATT  
ATTTTCCTTCTGTTCTTTTCAATTCAGGTCATGAAGCACACATACTGCTACAGGAAAGGG  
CAAAAGGCAATGTCAAGTGTGTGAATTGTTGGGTTCTTTAGTGGCAAAGGCCANCAAT  
GTTGCAGCCAAA

Sequence 3045

CTGGGAGGAGATGCTGCCACCTAGGTTA/CTTGTAGGACCCTATACGGCAACCTCCTTTGC  
CAGGAACATTTATAAACATCCTGCAGGAAAATGTCAGANATGGGAAGAAACAAGAACTT  
TGACATGCTTGGTGTCTTGGCCCAAGCTTTGA/NAAGTTTACAAAGTCTATATGTCANAA  
TACACATTTCCACCTTGCCCAACAGTNGAAAACATAANAAGAGAAAAACATTAATAAAA  
TGACAAGGAAGTTAATGGAAGTCAGCAATGTGATGGTGTGAGGTGGAGCCTTTCATA  
AGGTAATTAATGCCCT

Sequence 3046

CCGCGGTGGCGGCCGCGGCCGCGGGCAGGTACCCTATCCAGAGGGTTCTACCCCATGTAGAAC  
CTCTCTTTTCTGTTACCTGATTAGGTGTAGAAGTAGCCAGTCAAATTCATCCTCGCTGC  
CACTGTTATTTCTGCCCCACCTCTAAGCATTTTCTTCTTCTCATTACCACTTTTAA  
ACATGTGTAATACATCAGTAACTAATTTATAATATTCCACTCCAATCCATCAACCTCAGT  
AAATTTAATATTACATCATCAGCCCTTCATATCCATACATTACTTCAAATCTTTATTC  
TGTTTGACTCCATGGATTGTCATCACCTCTCCACAGCAGCAAGGCCAAAGACCCAAACAC

Table 1

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## Sequence 3047

CCGCGGTGGCGGCCGCCGGGCAGGTACACCTTGAGCCCGGCATTTAACCTCTGTGGGC  
CTCAGTCTCTGCACCTATAAAAGGAGGGATTGGGCGAGATATGCTGAGGACACTAACAT  
TCTACACGTCTAACTTCGAGGAACTTTCTAAAGCAAGAAAACGAATAAGGGCTAAATT  
TAATTCGTGAGAGTGAAAAGAGAACAAAGAGAGAGGACTGGGAGTGGGAGATTAAGGGC  
TGTGAAAGTGGTCTTGAGATAGATGTTATTGGGGACCAACCTTCTCAATGCACTGGTCA  
AGCGCCGGACGT

## Sequence 3048

ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACCTTCAG  
GCCTGGGGCCTGTGCCAATAGAGTATTACTGGATATAGGAATAGCTCTGACACCTCAAGG  
TCACCCTAGAAGTTGAAGGATTCAGGGCTCACATATTTAGACTCAAACCTCTAGAACA  
CTGTTCTGACCCAGCTGAGCTATTGAAGATAGTTTTACGGCACTGCTATCCTTGATTGA  
CCTCCTAGGGGATCTGTCTCTCTTGAGAATAGGCCTCAACTCTAATTTCTTGCGCCAA  
GACCAANAGTGGGCAAGGGGAGCCTAGCCTGCACCTTGCCACCTGGTGTGGCCATTATC  
AGGGTGCCAGGAGCTGAAGTGGCACATGTTAGTGTCTACAGAGTGCCACGTGGGTAGTGC  
TAGGTCTTNCAGGAGGGCTCAGCCACTGATGACTTTAAGGCATGCAGGTCTCCAACATGG  
CTTGCAAGGAAA

## Sequence 3049

CCGGGCAGGTACTTGTGTGGGTGTCTTACCTTGCAATAGAATATCCTAGGCCTTTCTAAT  
TCTTCTCTTGAATCCCTGTGTCACTCATCTGAGGTCATCTCTTGATTAAATACATT  
TGGTCTGAAATTCTCAAACCTGCTGAATAAAATGCCATAGTAAGTCCAACCTATATGGTTTC  
ATGTAGGGTAAAGTAACCATTTGTGAAGGATTACGATAAACTGTGTGACAATAAATAGA  
ATAAAAGATGGCAAAACAATCTGTAAATTACAAAGTGTATAAAATGCATTGAATTTCT  
AGTGTCTTACACTTTTCATATTTCTCATTGGCACATCAATCAGACCTTGCCTTCTAAAA  
GTGGGAGGAAGAAAAGGCTGCACCTTGTCTGGGCTGAAGGTCTGGGCCAGAACACTANC  
AAAACCTTTTTAA

## Sequence 3050

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGTCGTTGTTGT  
TTATATCTAAGAAAGAAAAAATGAATAATTATCTGAGTTTCCTGAGCTTTATGACCAAT  
AGCATTGTTTCTCAATATATTTTCAATGGATGGGTATATCAGAGCAATAAGCTAAATT  
ATGCTGTAGTAACCAACCCGCTTCATTTTNGGTGAATTGACATAAAGATTCACTACT  
TGCTCACACTAACTTCCTCCTGAGGTTTGGTTCTGTGCTGCATTTTGAATTGCCTTCAC  
TTTGGAACCTTATCATGGGGCAGCAGTTACTATATGGATTTTATTGATCACTGTGTATAG  
AGAAAAAGAACATCAGGGACTCTTCTGGCAACAGTTAATTGCTCCAGTCTGGAAATGTTG  
CACAACCTATTGTCTGGAATTAGGTTGCAAGGGCAACATTCAATCACAAGAAGGGAGACC  
AAA

## Sequence 3051

CCGCGGTGGCGGCCGCCGGGCAGGTACAGTGACATGATCATAGCTCACTGCAGCCTTGA  
ACTCCCTGGGCTCAGGTGATCCTCTCACCTCAGCCTCCTGAGTAGCTAGGACTACAGGCA  
TGCACCACGACGCCTGGCTATTTTTCTTCTTCTTCTTTTTTTTTTTTTTGGTGGA  
GAGGGGGCTTTGCCATTGTTGCCAGGCTGGTANGATCTGTCCTTTTAACAAGGAATTA  
GAAAGGGCTGCTTCGTATATCTTCATGACACCTAACAAGCTGTTTTCTCTCTTTGTTCT  
TCAGAAATGCATGCAGTTTAATTTTTCTTTACCTATACAGGATAACTCTTATCATAACAA  
ACAAACAGTAAGGAAAACATAAATACGAAAGCAAACATTACCATAAATTCACCCCCAGGA  
TCACAACCTTGACCATT

## Sequence 3052

TTTCCTCCCCGTGATTACGGCCTGCTGGCTTCTCCAGGACTGGGTAAAGGCACAGCTAAA  
GCTGTTCTCTTGGCCCTGCAGAGCCAAACCCTGGACCTTTCAGGAAATGGATAAATACC

Table 1

ATTTCACTTCATTCACTCACTGCTGCCTGTGGTGCCTGAATACATACCCTGTGGCATCAT  
CTGTGAGTTATCCACACTTCCCACAGCAGATGCATAGGGAGGAGGTACCTGCCCCG

Sequence 3053

ACTNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAGATGC  
ACACAGATGGGAGGAGCTGCCTTGAGCGAGAGGACACTGTCCTGGAGGTGACAGAGAGCA  
ACACCACATCAGTGGTGGATGGGGATAAACGGGTGAAACGGCGGCTGCTCATGGAAACGT  
GTGCTGTCAACAATGGAGGCTGTGACCGCACCTGTAAGGATACTTCGACAGGTGTCCACT  
GCAGTTGTCCTGTTGGATTCACTCTCCAGTTGGATGGGAAGACATGTAAAGATATTGATG  
AGTGCCAGACCCGCAATGGAGGTTGTGATCATTTCTGCAAAAACATCGTGGGCAGTTTG  
ACTGCGGCTGCAAGAAAGGATTTAAATTATTAACAGATGAAGAAGTCTTGCCAAGATGTG  
GATGAGTGTCTTTGGATAGG

Sequence 3054

CACACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTGCCC  
TAGCAAACCTCTCCTAAGTGGAGAATGAGGCCTGGGTCTCTTGACAATTAAAGCTTTGCTC  
TGTTCTTGACTAAATCCAGACATAACCACGTGAGGCTCCTCATCTGCTGGGAAGCAGAT  
TGCACTGGATTTACAGTCACGGAAAACCTTTGACTGTGTGTACCT

Sequence 3055

CCGCGGTGGCAGCCAGAGGCAGTCCCTGGATGAATTCAGGCTGCAAAGTGCCCTGTGACCT  
GGCCCTTGGGAAGCCACGCTCTGATGAGGTTTGCAGATCTCCCCGCAATCCAGGGCCAAG  
CATGAATGAAGGTGTTAGGCATTTCAAGGATGCGACTAGGACGTGCTGCTGTCTCAGGTT  
CACATTATACTGAAATAAGGTCTGGCCAGACAGCACCATATAGTTAATTGAGGTGTTTG  
GGAGATACTCAAATGGGTGTTAATTTCCAGGCAATATTTCAAGGCTCAGAGCCTCT  
ATTCAAAAGATAACTGAAAGGCTAGCAAAGGGTATTGCAAAGGTATATTCTGATTTCTGA  
CAGGAAGATCGATGGATGGACAGTGAGAGTATAAAGACCTTAGGGTTTGGGGTTCTGATT

Sequence 3056

AGGTACTCACAGCTGCATCACACTGAATATCATCTCCCTGCACTGCCATTTTCAATTTGAGC  
AGGGCTTTGCCTGTCAAGAACATTCATATCTTTTGATAAACAGTGCATTTTTCCTGAT  
AGTCTGTATGGGACAGCCTCCTTGTTGCATCTGAAGGACAGGGACTTCAGGGACCTCCT  
GCTGTGGTCACCAAGGAATCACATTCAAACCTCTCANCAAGGTGTTATGGTCTTCTCAG  
TTTGCTACGATCCATTGAGGCAAAGGTTTCCTTCTCTCAATACACCCTCTGCTTTANCC  
AGGGGGACCTCCCCTGCTCTCTATGTGTTCTATTTGTTCTCTGACTGTTAGTACCTGC  
CCG

Sequence 3057

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTGCCCTGTGCGT  
AGCTGCATTAACCAAATGATCAAGAATATCAAGATACATCTTCCTGGATCTTCAATCCC  
ACTTAAAGATTTGGAGAACATATCATTTTATATTAAACCAATAACATTTTCAGAATACA  
TTTGAATAATTTCTTTTACCTAAAAACCAGAAGTCTTTTAAATAAGTATCATTTTGTAG  
ATGCATTGCCATAGGATACATACTGAGGTATCTTCTCTTTCTTTACCTATTAGAAGCAT  
TTCTGGGCAAGTTTGAGGAGCATGGAATTAACAGTCATCAATGCATTGCTGGATTGAAA  
ATGATTTATATCAATCAGCAGAGGACCTCCACTGGTGGATGTCAGCAGGGATCTGAGGGA  
TGTTTCAGGTAGACCATGCCTATGCTTTGGAACCTCCCCCGCGT

Sequence 3058

CCGCGGTGGCGGCCGCCGGGCAGGTACCCAACAATTTGAGTAACGTCACTTGTGAGAAGG  
AGACATTTTGTGTCATGCCATAGATTGAGCCCTGCTCCATCATTTACTTGCTGTGGGA  
CTTTGGACCTGCATCCACCTCTCAGAACTTGTGCTTCATTGTGTATCACCTATTTTAC  
AGATTGTTGTGAGATTAAACAAGGTAAGATACAAAAGGGTCCTAATACACTGACTGTTAA  
AACTGAGCAGTGACTTAGAATAATCTCTTGAGCAGTCCAGGGCACATATTGACCTCTTAA  
GTCTCCTTTAGAGTTATAATATTAGCATAATAACACTGAGCTTTAAGAAAAGTCTTTAAG

Table 1

CCAGTGATTCTGTGTATATACCCTCCAGAGGGATTCCAAATCCCCAGGAACTGAATGAA  
AGTCATGGTTGAATGCACTCGTATGCA

Sequence 3059

CGGGGGGAGCCGGGCTCCCTGAGACTCAAGAAAATGCACCCGACCTGCGTTCTCTCTGCC  
TGGGGTGACCCATAAGGAACACCCCCCTTCTCAACAACCACAGAATAATGCCAAG  
GGGACCACCAACATGGGCATGGGGCTGTGATGCCAATCTTAAGGGAAAACACAAGTAAAA  
TCGGCTCCAGGACTGACCTGGGGGCAGCTGCTCTTTCTGTCCATGACTTTGAGGCGGGAT  
CTCGAGCGTCTGTCTGACGGGCCTTCTGTCTGCTGTCTCTCGCAGGTTTCAGACATTGA  
ATCCANGATTGCAGCCCTGAGGGCCGCANGGCTCACGGTGAATCCCTCGGGAAAGCCCNG  
GAGGAAGNCAAACCTCCCGATATTCTCCCTNGAGTGGCTGGGAACTTGGCAAGAGAC

Sequence 3060

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTATATCATGTAACAT  
TATGAGATGTTCTGCTGTGATCACGTGGCCTGCCTGTCTATCAGGAAAGGGAGAAAAATGGA  
GGGGAGGACTCTTACATTCCAGTCAATTCAGTAGCCTCTTGATGCCAAAAATTAGAAAG  
GGGAANCNTATCATATGTGTACCTCGGCCGCT

Sequence 3061

TATACGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTT  
TTTTTTTTTTTTTTTTTGGGATGGAGTCTTGCTGTCAACCCAGGCTGGAGTGCAGTGGC  
ATGATCTCGGCTCACTGCAGGCTTCGCCCCCTGGGGTTCACGTGTGTTTCTAATTTTTAA  
GGCCCTACTTTAATTTCTACTGTCACTAAATAAAAAAGAACAAAAGCTTTTTCTTTTAA  
AACCCTAGACATCATGTTCTGCTTCTGCTGGAAAAAGAGACAGGATATNACCATCTCAA  
ACCAGCACCTTTNAGCAACTGAAGCCTTTTTGTCTCACCTGAGTGTTAANACAATGGC  
TCCCTNACACATCACAGGCCCTGGAAGTGCTACAACAGCTGAATGGGGTTTTTCATGGGAC  
ATAAAATCACTTTCCCACTACCTNCCACCTACAAACCT

Sequence 3062

CCGCGGTGGCGGCCCGCCGGGCAGGTACAAGTTTCANGCCACTGGTGGTTTGCCAAACTG  
GCTGATTACCCATAAACACACAACATGGTTCTGTTTGCTCCTAGCAATCCTTAAACCAT  
TGCATGTCTAACATTCTCAGACTAATTCACAAATCAGAAACATCTGATGCCCAACCCATA  
CCAAATGCATTTACAGGGCAAAAATTATGCTCCTATAATGTCTGGCTTCTGTCTTCAAGG  
CACTTTGCTTACATGACTGAATCCTTACTGTGAGGTGTAGCTATCCATCATTTTTGAGCA  
AGAAAGCCAAGATGGATAAATAAGTGACTTGCCCAAGACAAGTAGAGTGGTTGGCACCAT  
GATGGGATTGGTNGTCTTATTTTTTCAGTTGGGTACCTCGGCCGCTCTANAAGTAGTGGGA  
TCCCCCGGGC

Sequence 3063

TATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTGT  
TTCTCCAGCTACAGTCTGTACAGCTTCCCTTGCTAGGAAAGGGAAATCCCTTGACCCC  
TTGCACTTTGTGGGTGAGGTGACACCCTGCCCCAGTTCCGGCTCACCTCCGTGGGCTGCA  
CCCCTGTCCAACAGTCCCAGTTGAGATGAACAGGTGCCTCAGTTGGAAATGCAGAAA  
TCACCTGCCTTCTGCTTCGATCTCNCTGGGAGCTACAGACCAGAGCTGTTCTATTTCAGC  
CATCTTTGGAAGCAACCAAAAGACTGATTTTTAAATGGAAAAAAATGTTTTCCTGACAGA  
GTATAAAATATAAAAGAGTATCTAACCCACTGCAAAGAGAGGTCTTATGAAATTCAGG  
GGTGAACCTGGCTTTCTGTGAAAAGAAAGGCCGCTT

Sequence 3064

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTATAGC  
ACAAAGCTGATGATATGCTGGCAACTGAACATTTGGCTTCAATGTCTAGAGTAATAGAGTGT  
GGCAAAGTGCAGAGCTCATGCTCCGCCTAAAAGGGGCAGCTGCTGCTCAGCTCCTGCCAA  
TTACCACCATGCAGGAATTTGGCCTAGTGTGCTCAGCTCCTCCTGTTTTACCAGAAGCT  
AGGAATCTGGGTTTTATGTGAAATGGCCTAATTTTTAAATGTTAGCATCCACTCTGAAA  
AAAAAGCAAAACACCGTGTGGGCCAAATAAACATTTGCTGGCCAAATGCAGCCTGATTT



Table 1

GCTCTGTTTTCAACCCCTGGCACAGAATTTGTTCAATTTCTCTTGTGGTACCTNNGCC  
 GCTCTAGAACTA  
 Sequence 3065  
 GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAGTTTCAGCCACTGGTGGTTTG  
 CCAAACCTGGCTGATTACCCATAAACACACAACATGGTTCTGTTTTGCTCCTAGCAATCCT  
 TAAACCATTCATGTCTAACATTCTCAGACTAATTCACAAATCAGAAACATCTGATGCC  
 AACCCATACCAAATTGCATTTTCAGGGCAAAAATTATGCTCCTATAATGTCTGGCTTCCTG  
 TCTTCAAGGCACTTTTGCTTACATGACTGAATCCTCACTGTGAGGTGTAGCTATCCATCAT  
 TTTTGAGCAAGAAAGCCAAGATGGATAAATAAGTGACTTTCCCAAGACAACCTAGAGTGGT  
 TTGGCACCATGATGGGATTGGTTGTCTTATTTTTTCAGTTGGTCTGCCCC  
 Sequence 3066  
 CCGCGGTGGCGGCCGAGGTACCCAGCAGAATTCTCACATGTGCTTATTTTGAAATTAAC  
 CAATGCAAAAGTTTTTACCCTGAGGTGTTGCTAATTCATGAACCTATTCTCTTGACAGTT  
 TTTCCCTCCAATATAACCTATATCTTATTAATGTCTTTCTTCTTAGATTGTTTCCA  
 ATAGTAGCTCAATTTAGCTTTGTTTCAGGCTCCAAATTAGAAAAACGCTGAGATTAGCCA  
 AATATTTGAACACTGTAAGGTATTAATCAGTTTAATCTGAAAAAAGGTATAAGAACAC  
 TTNCTACAGTTCCAGAAGAGTGAGCTGTCTGGCTGAGGGTATTTTATAAGCACCTACA  
 TGTATGGACACTAATGGTGAGTCATCACCAGAGGAAGATGAAAAATCTGGA  
 Sequence 3067  
 CCGGGCAGGTACCTATAGCACAAGCTGATGATAGCTGGCAACTGAACATTTGGCTTCAAT  
 GTCAGAGTAATAGAGTGTGGCAAACTGCAGAGCTCATGCTCCGCCTAAAAGGGGCAGCTG  
 CTGCTCAGCTCCTGCCAATTACCACCATGCAGGAATTTGGCCTAGTGTGCTCAGCTCCTC  
 CTGTTTTTACCAGAAGCTAGGAATCTGGGTTTTTATGTGAAATGGCCTAATTTTTAAATG  
 TTAGCATCCACTCTGAAAAAAGCAAAACACCGTGTGGGCCAAATAAAACATTTGCTGG  
 CCAAATGCAGCCTGATTTGCTCTGTTTTCAACCCCTGGCACAGAATTTTGNTCATT  
 Sequence 3068  
 GACAACCAATCCCATCATGGTGCCAACCACTCTAGTTGTCTTGGGCAAGTCACTTATTTA  
 TCCATCTTGGCCTTCTTGCTCAAAAATGATGGATAGCTACACCTCACAGTGAGGATTCAG  
 TCATGTAAGCAAAAGTGCTTGAAGACAGGAAGCCAGGCATTATAGGAGCATAATTTTTG  
 TCCTGAAATGCATTTGGTATGGGTTGGGCATCAGATGTTTCTGATTTGTGAATTAGTCTG  
 AGAATGTTAGACATGCAATGGTTTAAGGATTGCTAGGAGCAAAACAGAACCATGTTGTGT  
 GTTTATGGGTAATCAGCCAGTTTGGCAAACCACCANTGGCTGAAACTTGTAACCTGCCCC  
 Sequence 3069  
 TACGACTNCTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCGCTCGACACCCTGTGCA  
 TGGGCATGTCGGCCGACTTGCGCGCCGCGCTGCTGGAAGGCGCCACCATTGNGCGCGTGG  
 GCAGTGCCATCTTCGGTCCCGTAATTAATCTCACTGATTGAATGAAAGAATCACCATGA  
 CGACAGAATTGAACATCNTCTTCGTGGGCGGAGGCAATATGGCCGCCGCCCTGATCGCC  
 GGCCTGGCAGGCAAAATTGACCCTGGGCGGCAATATCCACGTGATCGACCCCATGCGCCG  
 GCGCTGGAAAAATTGCAGGCGCAGTTNNGCGTCACGACGGNGACTGCCGCCGGTGAAGCG  
 CTGCGGGGCGTGGG  
 Sequence 3070  
 CCGCGGTGGCGGCCCGCCGGGCAGGTACGCGGGTAAGCGAAAAGCTCTTTGCCAGACCA  
 TGACTCAGATAGTTCAGGTAAAGATCCTAGAAACAGCCAGGGGAAAGGAGCTCACCGACC  
 AGAACATGCCAGTGGTAGAAGGAATGTCAAGGACAGTGTTAGTGCTAGTGAAAGTGACCT  
 CAACTGTGTACCT  
 Sequence 3071  
 CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGGGGGCCATTGAGACTGCCATG  
 GAAGACTTGAAAGGTCACGTAGCTGAGACTTCTGGAGAGACCATTCAAGGCTTCTGGCTC  
 TTGACAAAGATAGACCACTGGAACAATGAGAAGGAGAGAATTCTACTGGTCACAGACAAG

Table 1

ACTCTCTTGATCTGCAAAATACGACTTCCATCATTGCTGAGTTGTGTGCAGCTGCAAGCC  
GGATTCCCTCTGAGCGCTGTCTATCGCATCTGCCTGGGCAAGTTTCACCTTCCCTGGGATG  
TCCCTGGACAAGNAGACAAGGGAGAAGGCCTTAGGGATCTACTGGGGGAGTCCGGAGGAG  
CAAGTCCTCTTCTGTCCCGCTGGAACCCATGGTCCACTGAAGTTCCTTATGCTACTT

Sequence 3072

CCGGGCAGGTACAACCACCCCGGGTATCCATAACCTAACAATAACAATTGTTAAGCAT  
TCGGCCACTCATGTTTCTTCAGCTCCCCTACCTCCTCCCTATCCTCCCAGGTTCCCACTG  
AATTATATATCATTTCATTTCATAAATAATTCTGTATATTTAGTTACAGCTCAATGAATTT  
CCACAAAGTGAACATGCTNATGCAAACCACACCTGCACTGGGAAATAGAAATTACAAACA  
CCCGGAGCCCCCTCTGCAATACTCTCTCAGTCCTTTCTCACTCCTTCCCAAAAGAGTCC  
CGCGTACCT

Sequence 3073

AATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAGGTTGACAGGTTGGGTGTC  
TGCTCTCAGCCTGGGCTCCCGCAAGCGGGGGAAGCAGCTCCAGCTGGGGGGAAGCGAAAA  
AGGGACAGGACCTTCANAGACAGCCCACTGAGGGCTGAGTGTGCATTGCTGGGCTTCTGG  
AATCTGTGGTGAGGGCCGGTCCCCCACTAATTGAGCAAGAAATAGCCCCCTCAGAAACCC  
ACTTGAGGCCAGGCCGCGGTGGCTCACGCCTGTAATCCCAGCACCTTGGGGAGGCTGAGG  
TGGGCNGATCACCTNAGGTCGGGNGTTTANAGACCANCCTTGACCAACATGGGAAGAAACC

Sequence 3074

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATGGTTTCCATTGC  
AGCGAATAGACTAATATTCCTTCTGCTGGCAACCTAGACAAGTTCCTAAGCTTATGGGT  
AAAAATGGAGTCAAAGAGAAGTGCCAGTATCCAATCTTCAAATATTTGCTGAGGATCAC  
ATGGAATTTAAAAAGAAACGCTCCGAACAGGAAAAACAATTGGCCAAGCCTTGGGAAGGA  
AGACAAGAGGGGAGGCATCCAGAGACTCTGGGCTGCACTGATGTAGGGCCTTTCGAGGTTG  
AACAGGTGAAGGGGGACCCTCACATGGGAACAGCGTGATGGAGGCAGTCTGGCTTATGA  
GCTGGGGAGTGAATTGTGTAAACATTTATTGAAGTCAGTTTGAAGTTGGCAAGCCACAA  
AAAGCCACTATCTGAAGAGCTTGTGAAATTTAGCCCT

Sequence 3075

CTTAGGGCGAATTGGAGCTCNCGCGGTGGCGGCCGAGGTACTAGGTGGTTGCGCTGTCA  
CTGACACCGNCATCTCAGAAATGCCAAACTTTTGGAGGAAGGTTTGAGTCTTCAGGCTGN  
CTTCTTCCATTCTTCTGTAGCTTCGTTACCCTCCGTGGTATATTTATAATCTCACAAAAG  
TGCAGTTTACANTNAATTAATNCTTTTAGGGCAAGCNGGAAACATCCTCCACTCAAGGG  
TTNCGCCNTTCCACCTACNGGCGTNCCCCCGCGGTACCTTGCCCCGGGGCGGNCCCGCT  
TCTTAGAACTAAGTTGGAATCCCCCGGCCTGCAAGGAAATTTGCGATATCAAAGCTT  
TNTTCCAATACNCCGTNCCAANCTTNTAAAGGG

Sequence 3076

AGGTACAAGTTTCAGCCACTGGTGGTTTGCCAACTGGCTGATTACCCATAAACACACAA  
CATGGTTCTGTTTTGCTCCTAGCAATCCTTAAACCATTCATGTCTAACATTCTCAGACT  
AATTCACAAATCAGAAACATCTGATGCCCAACCCATACCAAATGCATTTAGGGCAAAAA  
TTATGCTCCTATAATGTCTGGCTTCTGTCTTCAAGGCACTTTGCTTACATGACTGAATC  
CTCACTGTGAGGTGTAGCTATCCATCATTTTTGAGCAAGAAAGCCAAGATGGATAAATAA  
GTGACTTGCCCAAGACAAC:TAGAGTGGTTGGCACCATGACGGGATTG

Sequence 3077

CGGNCGCCCCGGGCAGGTACCTTCTCAGCCAGCAGTTAGCCATTGTGGAGGTGCCAGGGGA  
GTTAATGCCCTTAGGAGCAACTCTTGGTCCTTGGAGGCAGGAGTCAGCACCCACTGAACG  
TCAGCATACATTTCCACCTTCCAGCCCTTCCAAGGGATGATCCTCAGAAGTGTGTTCTG  
CTGGGTTCTCCTCAAAGCTCTCAGTGAGACCCAGCTCCAGTTGCCCATAGTGGAACCCAG  
CTCAACCATGCCCTCCTAACACCTTTTCTTCTTCCCTGACCTTTCTGCCTGCACTCAAG

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Table 1

TCTTTTCTCAGTTTGCAAACCGGATACACAATATTTAGTATCTCCCAAACGTAA

Sequence 3078

GGAGGTGCCAGGGGAGTTAATGCCCTTAGGAGCAACTCTTGGTCCTTGGAGGCAGGAGTC  
AGCACCCTACTGAACGTCAGCATACATTTCCACCTTNCAGCCCTTCCAAGGGATGATCCT  
CAGAAGTGTGTTCTGCTGGGTTCCCTCCNAAGCTCTCAGTGAGACCCAGCTCCAGTTGCC  
ATAGTGGCAACCCAGCTCAACCATGCCCTCCTAACACCTTTTCTTTCTTCCCTGACCTT  
CTGCTGCNACTCAAGTCTTTTCTCAGTTTGAAAACCCAGGATNCACAATATTTAGTATCT  
CCCAAACNTAAAAAAGTGAGGTGCNACAATTCAAAAGAAAATTCCAGGATGCATAGTAGN  
GNTTTAGAGAACAACATG

Sequence 3079

CCGCGGTGGCGGCCGCCCGGGCAGGTACACAACTCTCTCCCCATATCTCATGGCTCTGT  
GCATAAATGGAGTGGGCACAGGGGTGGGGCATGTGCCCTGATGGCTCTTTGAAGACTGT  
CACTGTTCTGTCTTTGGGAGGTATAAGGTGAACAGGACCTTAGAAATGCTGGGAGCAAGCT  
CTAGTAACAAAGGCTCTTTGTGGTCAGGACAACAGAGGGTCTATTGCCATCTTCTCAGAA  
CGCAGGAGCTCCCGCAAACAGGTGGGGAAGAAAAGAGGAGCTGATGTCAGCGGTGCTAAGC  
TGTCATCCCGAGGCCAAATGTGAGGCTGAACATGGTGAAGTCTACAGCGAACCACCCGGGC  
TAGCTGCCCTATGGTACCT

Sequence 3080

GGAGAGAGAGAGATGTTTTATTTTGCCAAAGCATGTGAGAGTAAGTAGCAAACATCATG  
ACACTTCACCCCTCAAATATTTCCACGTATCACTTAAGAACAAGGGCATTCTCTGT  
TACATGACCACAATACAATCAGCACAGATAGATATTAAACATTGAGACAATGCTCTGATGT  
ATTGGTATCTACTATGCAGNTCATAATCAAATAAGGGTTTTGGTAACTTGGGATCCATAA  
ATGGTCTGCAAGGTCAAGCCCTGTAGACCTGCACTTAGTGGGTGCCATTTCCTGTCTCA  
GGTGCCTGCTCTACTG

Sequence 3081

CGAGGTACGCCGGGTGTGCAGNCACAGTGAGCTTCTGAACATTTCTTCTCAGACTAAGCT  
CTTACACACAGTTGCAGTTGAAAGAAAGAATTGCTTGACATGGCCACAGGAGCAGGCAGC  
TTNCTGCAGACATGACAAGTCAACGCAAACCTTCATGTTCACTGTGGGCAGACACATGTTT  
TGCAAAGGAGAACTTNAGGAGCCAAACAAAGCCACACTTCAATGTGGCTNTTGCCCCAA  
TTTTACTNCATTTAGGGTNAAAATCTTTCCCNCTCCCTCCCCAAGGAAGAAAAAGGTGGG  
AANTAGGAGCATTGGAGGTTCCCTTCACCATTGGGAAAACCTTGGAAGTTCAAGGGGAAAA  
ATTGGGGANGGGCCTCCACCCCCAAATTTATTTTGTGGCCATTGGGGGGTTTTTAAAGNTT  
TTTCCCTTNGNAAAATNTNAAAAGCTATNCCAGGGGTTTTTGGGTCTTTTTNGNGGGTT  
TTNACCC

Sequence 3082

[illegible]

Sequence 3083

AGGTACCCATGAACATAGTTTTTACTCTTTTTAAAGCTGTAGGCACTGGAAGGTCATGT  
GTTGAGCCATGACAGTGGAAGGTCAGTGTTGAGCCATGACAAGGCCCAATGTCATGGGCC  
CTCTGNCATNATCCTTTGTCNCGTAGTGAATCCCCANAACACTTTTTGCATGGCTTTGT  
TTTANAACAGAAAATTTTTTCTNGCAGGNTTCTTTTTGGGGGAGNTAAGCNTCCTT

Table 1

TGGAAAAAGGTTTTTAAACCCCCCTTGGACAAGNTTTTGANTTGNAAAAGGAAAACNAA  
GCTNGGAGGGGNCNTTTAANNNGNANGGGCCAAGGGGTANNGGCCCTTT

Sequence 3084

AGGTACAAAGAAACAGCTTCAATCCTTTTGGGGAATGGCAGGGTTTTGCAGAATATGTGT  
TCCAAATTTGGGGTCATAGCAAAACCCCTTTATAAAGCAACAAGGGGGCCAAGAAAATGA  
GTCAATGGAGTGGGCCCTAGAAATGAAGGGGAAACTTTTGCCAAGTTAAACAGGCTCTT  
AACAAAAGCTCCCACTCTTGGCATCCCAACNTTCATTAAGCATTTTTCTTGATATATA  
GCAGGNAAAAAAGGGCATAACNTGTGGGAATACCTAAACCCAGGAAATTGGGGATCA  
AGAAACCCCACTTACTCAGACCCCATCTACCTTTTTTCAAAAAGGAAANATNTGTAAACC  
AGGAGGTTANGCCTTNCACAAGGTGGACCCCAAAGGCTTGGCCCTTGGCAANGGCCAAA  
ATTAAGCCAAGGCCCCACCTNGGTTAATTTTTTTNAGGTTGG

Sequence 3085

CCGGGCAGGTACCCGGGCGTGTGAGGTGTGAGTCTGCCCCCTACTTGGGGGTGCCTCCAG  
TTAGGCTACTCGAGGGTCTGGGACCCACTTGAGGAGGCAGTCTGTCCGTTCTCAGATNTC  
CANCTGCNTTGCTGGGATGCTGCGAANAACCACTACNTNTNNCCCCCGGTACCTTN  
NGGCNCGCTTCTTAGGAATAAGNTGGGATCTCCCTCGGANCTTGTGAGGGAATTTCTAT  
TATTCAGCCTTATTCGGATACNCGATCANACCTCGAGGNGGGGNGCCTNGGNTACCCAG  
ACATTTTGNITCCCCCTTTAAGTTGAAGGNGTTAATTGGCGCCGCTTGGCCGTAAANNC  
ATTGGGTCAATAANCTTGNITTTCTTGTNGTNGAAAAATTTGGTTAATTTCCCGC

Sequence 3086

CCGGGCAGGTACTTGTGTGGGTGTCTTACCTTGCAATAGAAATATCCTAGGCCTTTCTAAT  
TCTTCTCTTGAATTCCTGTGTCACTCATCTGAGGTCACTCTTGGATTTAAATACATT  
TGGTCTGAAATTCCTAACTGCTGAATAAAATGCCATAGTAAGTCCAATATATGGTTTC  
ATGTAGGGTAAAGTAACCATTTGTGGAAGGATTACGATAAACTGTGTGACAATAAATAGA  
ATAAAAGATGGCAAAACAATCTGTAAATTACAAAGTGTATAAAAATGCATTGAATTTCT  
AGTGTCTTACATTTTCATTTTCTCATTGGCCCATCAAATCAAACCTTTGCCTTCCTA  
AANTGGGANGAAAAAAGGCTGCCCCCTGTCTTNGGCTGAANGGTTTTGGCCAAAACAC  
TTTNCACAAACTTTTTAA

Sequence 3087

CCGCGGTGGCGGCGGAGGTACGCGGGATTGCTATGTTGGATGATTTGGAGCATGCAGAGG  
CAGATACAGTAGTAGAATCAGCTTTCTGCCTCCATCTTTTACTCCGCTCCCTGTCGCTCT  
TTAACTCAGCAGTTTTTCTCTCTCAGTCTCCCACTTGTGTGAGTGTATTATTTCTACA  
TAAATTGAGGGTGGAGGGCACTTCTGGTTGTGTTGAATGAGGAGATTGGCAGAATTGAC  
AAAAGCAAATGAAACAATCTCAGCATTCTGGAAAAATTGAGCAGGGGCATACAACAATC  
TGAGAAGTATTTATGCCTGTAACCTGCTGAATTTGAGGTGAGAACAGTGAGACTGTATGGC  
ATTTGGCCTGGAGCTATTCCTATGCCCTCTCCCATCTGTTT

Sequence 3088

CGGCCGCCCGGGCAGGTACTGGTTTGACAACCACCTGTTTCCAGCTCCACAAGCTAGCAT  
GTAATTCCTTGGTGAGAGTAATTCGTTCAAGGATGAATATNCAACTCAATTTTCATAG  
AGTTGTTGGAATAAACTGGCAAAAGGCTATCTTTTGCAATNACCACTTGTGTTGCTGTAA  
AGAAATGGATAGTCAAGCCCTNNGAACCTGNNTGGGAAGGNTCACCATTATTTGNGGNT  
ATAATAGTTGNNCTTGGCAAATTAATAGGTTTTGTAAAAAAGTAAGGGANCCCCNTNTA  
GGACCCCAAGCCNTTGCAAATNTTNGGGGNNCCACCCCATTTTGGNAGGCAATANC  
CAATTTTTTGNATAAGACTCCATGNGGNTGCAAAACCTTCCACCNAGGAATTTTTTTTC  
CNTCCAAATTTCAATTTTTTGAAGNGNAAAAAATTTANAAGGTTTTAAACCTTTTTT  
TTTAAGCCCCCNAAAAGNCTAATTTTTTTTTGGGGAATNTNGGCCTTGGCCCCCNCTT  
TTGGCNAAATTTATTTAAAAANGAAGGTTCCCTTGGAAAATGTAAATGGGCCACCTTTA

A

Sequence 3089

Table 1

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACACCTGCATTAGGG  
ACAAGAAATCTCTATGTTGAACAAATACTGCAGGTGGTGCTGATGCTAAACTTTTACAAA  
CATTGGTTATACAATTAATCAACAGTTATTTGATGATTCAGCACACAAATAACTCTTTGC  
AACCAGGTTTACGTTACTGGGAACAACTAACTAGGTTTCCCCAGGTGTGGAGAGCTTTC  
ACACAATATACCCTAACTTACATAAACAAAATTACCCAGGTAAATATTTACTAAACAGTT  
TTAACATAAATGATAGTGATACACAAATTTGAGTAATAATTCAAGAAATAAGTNGCACA  
ATTAGGCTGTAACTGCTGGTTATCTGTTTAAATGTGAAATACCCACTAGCTTNCCTTCAC  
CCTT

Sequence 3090

AGGTACTTCTGTCGTCANGATGCAGGTGGTTATGAACTTGGATGCAGTCAGTAGCCAGAG  
ACTTGGCCATCTACACTCTTCAGCATGGGTCCCCCTGACCCTAAAAATCATAACAGTCCCT  
GGGCCAAAATGGCCTCATCCAATCCAATGTCTGTCCAGGGCTTGATCTCTTCTATTGCA  
GTTCTAATGGTTGTCCAGCATCTTCTTGAGCGTCAACATCACTTGTGGATCCTGGACGCG  
TACCTGCCCC

Sequence 3091

CCGCGGTGGCGGCCGCCGGGCATGGTACTCCTACAACTTAACAACTTTAGCTTTTCGG  
GGAACAGTGGTGGTCTCCACAGATAGCTAGAATCTTCTAAGATGAAAATAAACTGTTTCA  
TCCAGCTGCTTTCTGCCTGTTAACCTTTGCCACTTCCATTCTTCAAGTGGTGNAATCC  
CCAGGGTTGTCTTGTATTACACACATCCTTGTTAAGTAAATATACCACTGTTGATTTCTT  
CTTCCAGTGCAACATTTGGATTAAATAAAAATCTTTAGTTTTCAAAAANAACAACACTNA  
ANAAAAANGTTCCTNNGC

Sequence 3092

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTT  
TTTTTTTTTTGTTTTATTTTTAGTAGAGATGGGGTTTTGCCATATTGGCCAGGCTGGTC  
TCGAACCTAAAATGTGAACATAAAATAAGACTAGACAGCTTTACTGATTTTTGTGGTTT  
ATCATATGAAAACAGAATTTTTGAAAAGCNGGGAAAAAATCAAACAGTTCATTCCTTTT  
TAAATTACTTTGGGAGGCCNAGGCGGGAGGATCACCTGAGGNCGGGAGTTTGAGACCAG  
CCCGACCAACATGGANAAACCCCCGCTCTACTAGAAATGCAAAAATTAGCTGGGCATGG  
TGGCGC

Sequence 3093

CGNGGTGGCGGCCGAGGTACCTNANTTGGAAATGCAGAAATNACCTGCCTACTGNNTTGA  
TCTCGCTGGGAGCTGCAGACCGGAGCTGTTCCATTAGCCATCTTGCCAGCAGGTATTT  
CTTTATAGCAACNCAAGAACAGCCTAATACAATTTCCAGTATNAACGGGCTGTTACAAGT  
TCCCCCTACCCCTTCCCAGTGGGATGGAGACAGTGGAGTTGNCTAACTTTCAACATCGT  
CCAGAAGTAAAGAGGCCACTCGCTCCCTCTTNCCTCTGGTGTCAATGGAGGCCATGTGGA  
GAACANNTAATGAGACACTCCTATTCTTTCCAAC TAGGATG

Sequence 3094

CCGGGCAGGTACTCACAGCTGTATCACACTGAATATCATCTCCCTGCACTGCCATTTTCAT  
TTGAGCAGGGCTTTGCCTGTCAAGAACATTATATCTTTTGATAAACAGTGCATTTTTTC  
CCTGATAGTCTGTATGGGACAGCCTCCTTGTTTGCATCTGAAGGACAGGGACTTCAGGAC  
CTCCTGCTGTGGTCACCAAGGAATCATTCAAACCTCTCAGCAAGGTGTTATGGTCCTT  
CTCAGTTTGCCTACGATCCATTGAGGCAAAGGTTTCTTCTCTCAATACACCCTCTGCTT  
TAGCCAGGGGGACCTCCCCTGCTCTCTATGTGTTCTATTTGTTCTGACTGTTAAGT  
ACCTCGGCCGCTCTAGAACTAGTGGGATCCCCCGGGCTG

Sequence 3095

ACGCGCACCGCGGTGAGCTGGCAGTGGCAACGCAGGCGGCGGTGGCCGCTGCGCTGCCGC  
TGGAACAGCTTAGTTCTTGACGTGCAGCCAGCGCGCGTGCAGCGGCGGGCCAGGTAGTC  
TAGGATGAAACCGAGTATGCCGATCAAGCACCGANNGGCGGGCCATNANTTCCGAATACG  
CGAGGCGGTGCGCGGTGTGAGGATGAAGTAGCCGAGGCGGCGGAGACGCCAGCATTT

Table 1

CCGCCGGTACCAGCACGATCCAGATGATGCCGATGGCCAGGCGCACGCCCGTNAGAATAT  
NGGCCGCTCTANAAC TAGTGGAT

Sequence 3096

CCGCCGGTGGCGGCCGAGGTACTCACAGCTGCATCACACTGAATATCATCTCCCTGCACTG  
CCATTTTCATTTGAGCAGGGCTTTGCCTGTCAAGAACATTCATATCTTTTGATAAACAGTG  
CATTTTCCCTGATAGTCTGTATGGGACAGCCTCCTTGTTTGCATCTGAAGGGACAGGG  
ACTTCAGGACCTCCTGCTGTGGTCACCAAGGAATCACATTCAAACTTCTCAGCAAGGTGT  
TATGGTCCTTCTCAGTTTGCCTACGATCCATTGAGGCAAAGGTTTCTTCTCTCAATACA  
CCCTCTGCTTTAGCCAGGGGGACCTCCCACTGCCCTCTCTATGTGTTCTATTTGTTCTG  
ACTGTTAGTACCTGCCCG

Sequence 3097

CTNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGGACCCCGGGNAGTTGGCT  
AAAACNCTAAAACTAAATGTGTAAGATTATGCATTTTAGTGATTTAAATTATAACCC  
CCAGAAAGCATTGCCTCATTTTTNTGGAGGGTAAATATGCTCGTTAGGAGCATAAGGGG  
ATGATTTTGAGAAACCTTGCTCTGTCACTCTGTCAGNAAACCGCCNCTAACTTTCTGG  
TTTCAAAAAGCAAGGTCCATTGATGAACTCCTTTGTGCCTTAGTGACAAATAACATTG  
ATAAGGCCTACTGTCAACAAGAGTGTGTTTGTATATCTTTGTTTTAGTGACTAAATT  
TGTAGGAATGATTTTTATGGGATTTACTCAATCTCACCCA

Sequence 3098

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGAGCTGTTTCTCAG  
AGGAAGCAATGGAGGCTTGCTGGGATAAAGGCATTTACTGAGAGGCTGTTACCTAGTGAG  
AGTGATGAATTAATTAAGTAGTCAATCCCTTTCTGACTGTCTCTGAAAGCTTCCGCTT  
TTATCTTTGGAAGNAGCAAGAANTTGGNCACTCCAAGGGACATTTATTTAATTAAGG  
AACAACTGTCCANGTGAATGAAGGCAAAGTCATAGGTCTCCCAAGTCTTACCCCATTTCC  
TGTGGAAATATCAAGTTCTNGGGCTTTTCTCTGTCTAGGCTCAACTTTTCTCTGAC  
CGGGTGCATTTTCTTTCTCTGGTTTCTAAANTTGCACAGTGGGCCAAANTTTTGGGAT  
CCACTTTACTTTAATTATCTGGTTAAATTTTGGGGACCCCAACAAAAAGTCTTTTTTA  
GCCACCTNGTNGGGNGGNAAAAAAGAAAAA

Sequence 3099

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCATGCTTTTC  
CTGTAGTTGAAATCTACCATCAAACATGCTACTACCTAATGACGAATTCAGAGAAGGTA  
AAGAAAGTATGTAAACCTTTCCCTCACTGGTGGCCCTTATTAGCTTAAAAATGTAGTCTT  
CATATAATATAGNCAAGGACATTNATGGCAAGTCTAACATTTTACGACTAAAGAAAAA  
AGTGTAATTACTATATTAATANGAAAGACTTAATTATCTTTCTATTCCAGCCACTGAAGT  
TATTATGACAGAATTGTTATACAAAGGTNACATAATAACATGTAGCCAAATATATAGGA  
GAAGATATTATAGAAATATATTGGACAATTAGTTAATAAATGTTATTTTTCAAATGNTT  
ATGAACATTTTGTGACATTTGGNCAGC

Sequence 3100

CCGCCGGTGGCGGCCGAGGTACTTCTGTCTCAGATGCAGGTGGTTATGAACTTGGATGCA  
GTCAGTAGCCAGAGACTTGGCCATCTACACTCTTCAGCATGGGTCCCCCTGACCCTAAAA  
ATCATACAGTCCCTGGGCCAAATGGCCTCATCCAATTCAANGTCTGNACANGGGCTTT  
GANCTCTTTCTAATTGCAGTTCTAATGGGTTGTCCAGCATTCTTCTTGAGCGTCAACATN  
NCTTGATGGATCCTGGACNCGTACCTGCCCG

Sequence 3101

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATACAGCTT  
CATATCTGCTAATGGAGAAAATAACTTAAACTTGGCCCTGCCAGGCAACCCATTTTCTTC  
CAGTTTAAACTTAGTCTTTTTCAGGTTAGCTAGGCCAATTCAGGTGCTCGTCTACCT  
TCTTTCTCCCATTTCTACACCACCTTCTTTTTTGTCTCTCCCTGGGAGATATCTGAGCT  
TAAGGAAAAATTCGTTAAGAGTGGGGATCGGAGAGACCTCTGTTCCACTAGTTGCCTTCT

Table 1

GGACATTTTCTGGTCTCCACTGTTGATGTATCCATCCCTTCTGGCCTTTGGGTGCACTGA  
GGCATCTTGCTATTGNCTATGGTTATGCCATAGCTCCTAGNCAAAAGGCTCACATTCCTT  
TTTA

## Sequence 3102

AGGTACCCCTTAAAGAGCCCTTTTCAGAGATTTCGTTTTTCCTAATTGCAACCCACACAAT  
CCATAACATTTGAACGCTGGTGATGTGCTCTGTAGCAGTGCTGTGTGTTGTGGACCCCTG  
GAAGCCTACGCACCATTTGAGTATTTGATTTTTTTTGGCCCATCCTCAAGGAGCAGTTG  
TTGCTCCTTAGGGGTAAGTCGCCCTGCTGAGAATGCATGCTCTCGATAATGCTTGCTTC  
ACATTGGTCATTGTGGAATATTTTATAAAAGAGAGGATCCATTTCCAGCTTCTTTCTG  
CAGGAAGAGAACCTGTGGTTATGTCTTACTCCCCCATTTTGT

## Sequence 3103

AGGTACGTGTGCGCATGCATAGTCTTACCCCACTACACCACTGGGCACCTAGCCCAGACA  
TTGGGCTAGATGCTTACATATATTATTTCCCTCAGAGGACCTAGATTAATATACATATTT  
CAGGAATTATATCCATTTATTTATTTTTCTAGGGTGACCTATTTTTTACCCTGTAGC  
CAGTGAAAGGTAAGCCTGTTTTCTTGACTTAGTGCTGTAAACAGCCAAATGACAAAGTG  
ACCGCCTTGCTGGCACAGCAGTGCTTGCCCACTGTGACATTTCCCTCAGCTTCTTGATT  
TTTCTGCCCCAAATGCAAATACTACAGGACTCCCATTAAGTGGTTGAGA

## Sequence 3104

CCGGGCAGGTACCCTGGCCTAGATGCCAGTAGCATATTCCCCAGTTGTCAAACCAAATA  
GTTCTCCAGCAATGCAAATTATCACCTCATGTGTGCGTGGTATTGGGGGTGGAGGAACA  
TTGTACAGTTGGGGACTACTGGGCCGAGGTCTGTCTGTGCAAAAGGGGAATCTCAACC  
ATCACTCTGTAGTCACAAATGAAAATAAAAGAAAAAGCTATTTTAAACATTTTCATATTC  
TCTCTCTGCTTTTACATTTTGCTTTCTACTTGCCAACTTTCCCCATTATCAGAGCTCC  
TTGTGTTTCTAGCCACCT

## Sequence 3105

CCGGGCAGGTACCTGGGACACCAGGCAGTAGCCCTGGAGTAAGATCAAGTGGGAGACACA  
TATTCCTCCCCTAATGGGACTGCAGTGTGCATTCTGCCTGTCAATCCATTCTAGCATTT  
GTGGGCAAAGACCCAACATCCCCCTTTAAACACAGATTCCAGGGTCAGGCTTGAAGGGC  
TCAGAACTAGGAAGTCACGCTTAAACCTTTAAGTTGGNCTCTTAAATTCAACAAAAATT  
CACAAACAACCTTATTTTACCCACTCTNCAANTAAAAAACAAACAAACCCCTGTATANGT  
TTGGAAAAATAATAAATNTAATTGCATTCATATTCGA

## Sequence 3106

CCGGGCAGGTACACTTCCCCCTCCTCCTCCCCGACCATGCCTGAATTCAGACCTCTAGC  
CCTTGGATCTGTTATCTGACCCAAGAAGTCTTGTCATTTTAGAAGGCTATCACCTTTTA  
ACAGCCATTTCTGCTGCTTCCTGCACACTTTCTAATTTCTCCTCTGCTTTCCCTGGAAAT  
CTGATGCTTGACTTGGACACAATTCAACCCTGTCTCCTTATAGAGACAGCTGCTGAATGA  
ATGCTAGAAATTTAAATTCTGCTTTTAGCTTAGGGTCTCTGCCTTCTTAAAAAAGTAT  
TTCTAGAAAACATAACAATATATGCTGCTGCAGATTACCTTTTTTT

## Sequence 3107

AAGTCATTCTCAGGAAAAGGTGAGTGTGGGACCAGGCAGGGAAGCCAGTTTCTGTCCTTT  
ATTTGGAACATAATCAAGGCAGACAACCACAGTAAAGAGATGCAGAGGCAGGGAGTAGT  
GTAAAACCACCTTACACACAGCTTCCTGGCTTTCCCTTCACTTTAGGTTGTAGCTCAAGT  
TATCTTGGGCTAAAAAATAAGCTCTGTTGGCCCAATTAAACCAGAATTAATCACCATT  
CCCCATCTTTATCTGGTAATTTTAGTTCAACATTGCTCAGCTGATGGCTCATTAGCCAA  
GAAGTCTCCAGGTCTCAGTTACCATTTTCAGACAA

## Sequence 3108

CCGGGCAGGTACTCACAGCTGCATCACACTGAATATCATCTCCCTGCACTGCCATTTTCAT  
TTGAGCAGGGCTTTGCCTGTCAAGAACATTTCATATCTTTTGATAAACAGTGATTTTTTC  
CCTGATAGTCTGTATGGGACAGCCTCCTTGTTTGCATCTGAAGGACAGGGACTTCAGGAC

Table 1

CTCCTGCTGTGGTCACCAAAGAATCACATTCAAACCTCTCAGCAAGGTGTTATGGTCCTT  
CTCAGTTTGCCTACGATCCATTGAGGCAAAGGTTTCCTTCTCTCAATACACCCTCTGCTT  
TAGCCAGGGGGACCTCCCCTGTCCTCTCTATGTGTTCTATTTGT

Sequence 3109

ACAGAGTCTTGCTCTGTCACCCAGGCTGGAGTGCAGTGGCATGATNAATGAGTGAATGAC  
TTGAGTCAGTGAACGTGAAAATGTTTGGTANATTGTAATACNCCGATATTGTGTAATACG  
TAAAATACTATTAGGAACTACAGCAATGTCTTATATTCCCAGCTAGGCCATGCACAGGAG  
GCAGTGTGCCACACCACACTGAAAAGGNGGCCAGCCCTCACTCANAGCCTGCCTTCACCA  
CCTGCCCCG

Sequence 3110

CCGGGCAGGTACCCAATCCAGAGGCACCATTTGCAATCTAAGAAGAGCCCAGAGGAGAGG  
AAAATTGGTAATGAATCAGTGGGGAGTCCACGAAGGCAGAGGGGCTTTGGCACAGCCCCAA  
AAGACAGACAGAAAATGAAGCTCTCAGGACTCAAGAGGAGCCTCATTCCAGGCAGAAGAAG  
GATCATGGAAACCACACAAGCGGGTCCT

Sequence 3111

AGGTACGTGTGCGCATGCATAGTCTTACCCCACTACACCACTGGGCACCTAGCCCAGACA  
TTGGGCTAGATGCTTACATATATTATTTCCCTCAGAGGACCTAGATTAATATACATATTTT  
CAGGAATTATATCCATTTATTTATTTTTTCTAGGGGNGACCCTATTTTTTTACCCTGN  
AGCCAGTGAAAGGTAAGCCTGTTTTCTTGACTTAGTGCTGNAACAGCCAAATGACAA  
GTGACCGCCTTGCTGGCACAGCAGNGCTTGCCCACTGNGACATTTNCCCTCAGCTTNTTG  
ATTTTTCTGCCCCAAAGATGCAAATACTACAGGACTCCCATTAAGTGGTTGAGAGGCTA  
ACGCGCAACTGCNAACTTCACCAGGTCTTCTCTGTGCTGNTTCTCTTTCTTCCCTACC  
T

Sequence 3112

CCGCGGTGGCCGAGCGGNGCGCCCGGGCAAGGTACCCCTCTCTGTTCCCTCCCTNCACCCCT  
TCCCTCCTTTTCTGTTTTTAAGATAAAGTGTTGATTGGAAATTCAGCAACTGCAAGTCC  
ATTTGAAAGAAGTCAGTTTTTGTAGAGGCCTGGATATGANCNAATNTGTTTNTNAACCN  
AAATNACNACNTGAACCANTTCTGNGGGCCTGAACATANANAAAAATTTGTTGCATTTATT  
TAACG

Sequence 3113

CCGGGCAGGTACTCAATAAAATAAGAGATACTATAGTAAACTCTTACAGGAAAAATTAT  
TAGAATTTGTGCTATACCAAATCAATTCACAAAAATGAACTGCCTGTCCACTGTTTTTC  
CACAAAAATCCAGGCCATCTACACCTTGCTGGAAGGATGGAACCTCAACTGCTATACTC  
CTTAGATTGCTATACAGCAATCTAAGTGGCCCCATCACAGCTCCTCTCCTTGAACATTTG  
TTGAGATCAAGTTGCAGCTGGGCCAGGCACAATCGGTACAGTTAGACAGCTGAGGGCAT  
TCCAAAGAGTAGTGTTCTTCTCCACATTATCTGCCAAAGTAGTC

Sequence 3114

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTCAAGACTGT  
AATGAGCTATGATTGCACCACTGCACTCCAGCCTAGGCGACAGAGCTAGATTCCATTTCA  
AAAAAAAAGGTGATGATGGTGGGGCCCGGCATGGTGGTTACACCTGTAATCCCAGCACT  
TTGGGAGTGCTGAGGTGGGAGAATTGCTTGATCCCAGGAGTTCGAGACCAGCCTGGGGCAA  
CATTGAAAGACCCCGTCTCTTAAAAAAGAGAGGTAATGGTGGCTCCCTTTC  
TCTCATCAACACACTCTGGGGGATGAAAAGGATGATAATGTCTATGTGTGTGATAGATTG  
TAGAACGACTGCCANTGTGTTGAGCGAAGAAAAGGAGTATGTCTGCTGAACAGATTAGCT  
TCTGGTCTCCAATCAGTATGTGTGGTGGCGTAGGGGGACT

Sequence 3115

CCGCGGTGGCGGCCCGCCCGGGCAGGTACTTGATCGAACACCTCTGATAGTCCGAGTATGG  
TTACCTCAATAAGTAACCATTCCTCTTGCTCCAAGCCTGATGGGAAGGTAAACATAAGAA  
TAGAAATTTCTTGAGCTGAAGTGAAGTGAAGGAACCTCCCTCCCGAAAACCATGGCATGCT



Table 1

ACGAGGAACGTTTATTGTANGTTAGGCGGTCTGGTGCCTCTAGGGGGGACAATCAAATGA  
TACAGGACCTCGAAGAGTCTTACTTTGGATTTCTGTGGCTTTATAATGTAGTATATTATG  
TAGTTCATTGCTGTGGCTTTATGCTTTTTTATTATTTACAAGTGATTTACTGATTTGTGA  
GCTCTTGAACTGTGTCATTGCATGTTATGTTTACCCTGATAGTTGCATTTGCTTATAAT  
TCTTTTTGCTT

Sequence 3116

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTGNTTGTGAGATGGA  
GTCTCGCTCTGTTGCCAGGGGAGCGCAGTGCGCGATCTCGGCTCACTGCAACCTCCAC  
CTCCTGGGTTCAAACAATCCTCCTATTTTTAAAAAGAGAAAAACNACCTCAAAAAAGTA  
AAGGGGATTTGCTCATAGAACACATGGAAAACAGAAACCAGGAAGAAAATGAACATACA  
GTTTTCAAATCATGTGTTTTATACAAAAGTATCGTATTTAAAACTAAAAACAATTCTGAA  
ATTAGTAATAAAACCCATTTTCACAAATAAGGATCTAAAGCTTAAAGAACCTGCAGGCATA  
CAATTAGTCAACAGCACAGGCAGAACAGAACTNTGAGTCTATGTGATTCTA

Sequence 3117

GGCGCAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACGCGGGTGTCTTGAG  
TCGGCAGATGTTGTAAGGGACTGTGTAGATCAACCTTTAGGACAGGAGGTAGCACCTAAA  
AGTGAGGACCAGCTGTGGTGGTGGCAATAGAGTTTATGCTTGACCTTTGTTAATCGGGAG  
AAGTCTTGGGCATTTAGATGATGGGTAGGGCCATGGAACCTCTAGTAGTCCTGGTCCC  
ATGATCTGCCTCTGAAACAGGAGGGGTGGGATGTGGTAGTGGGATCCACTTTGTTCTCGT  
GCTCCTGACCCAGTGAGGCTCTCTCCTGCAGTCCAACACCGGCAGCAAGTCACAAGAAGT  
TTGTCTTNANGACCATGAACTGCCTCAAGCTTGTAAGCTTTCCTGCCTAGGTC

Sequence 3118

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACCCAACAATTT  
GAGTAACGTCACCTTGGCAGAAGGAGACATTTTTGAGTCATGCCATAGATTTGAGCCCTGC  
TCCATCATTTACTTGCTGTGGGACTTTGGACCTGCATCCACCCTCTCAGAACTTGTGTCT  
TCATTGTGTATCACCTATTTACAGATTGCTGTGAGATTAAACAAGGTAAGATACAAAAG  
GGTCCTAATACACTGACTGTAAAACTGAGCAGTGACTTAGAATAATCTCTTGAGCAGTC  
CAGGGCACATATTGACCTCTTAAGTCTCCTTTAGAGTTATAATATTAGCATAATAACACT  
GAGCTTTAAGAAAAGTCTTTAAGCCAGTGATTCCTGTGTATATACCCTCCAGAGGGATTG  
CAAATCCCCAGGAACTGAAT

Sequence 3119

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGCTCCCACCAGATACTCACTTGGTGAA  
TTGAAAGAGGAGCTGTAGTGAAAATACTGTCTTAGGAAAAACACAGCTCTTGATTGAGGC  
TATCAGCAGGTTAATGAATAACTGTTTTAGACAACA/TTCACCCCTAGTTTGAGCTGTG  
CTTAGAATGAATGTGGCCAGGTTAATGTGACCAGCAGACATAATGCAAAACCAAATAAG  
GTGGTAAATTGGCATCTTGGCTTTGTTGCACATGCAGGAAAGATCCAGGACTGGTGTGAG  
AGGTATACTGTCTTTGGCAGAAGAGTGCTTGTCATACCAGAGTACCTGCCCG

Sequence 3120

GGCGANTTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACCAACTGAAAAATAAGA  
CAACCAATTCCATCATGGTGCCAACCACTCTAGTTGTCTTGGGCAAGTCACTTATTTATC  
CATCTTGGCTTTCTTGCTCAAAAATGATGGATAGCTACACCTCACAGTGAGGATTACGGC  
ATGTAAGCAAAGTGCCCTGAAGACAGGAAGCCAACACATTATAGGAGCATAATTTTTGCC  
TGAAATGCATTTGGTATGGGTTGGGCATCANATGTTTCTGATTTGTGAATTANTCTGAGA  
ATGTTAGACATGCAATGGTTAAGGATTGCTAGGAGCAAAACAGAACCATGTTGTGTGTT  
TATGGGTAATCAGCCAGTTTGGCAAACCAACAGTGCGTGAACTTGT

Sequence 3121

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACGCGGGAATTTAGGGAA  
CGAATCATCCCACTTTTTGTATTGAGAACAGATTTGGGGAAGTAGTGGCAGGAAAGTGTA  
GAAGTTGGAAGATCCTTTAGTAGGAATATCCTCTTGCAATAATACGATGTTGATCCAGGA

Table 1

TCTTAATTATGGAAGCATTAAAGTAGAACAGATTTGAAGATGCACTTAACACAATTTGCGG  
TGCACTCTGAAAAAATGAAATGAGAGAAATTAATGACTCCACAGTTGCTGTCCTG  
AGTATCTAGAAGAACGAAGTTGTAATTTACTTGAATGGAGAAGACAATTCGGGGAGCACG  
TCTGCATGAAAAATGAATCATCTGGTTTGAATAAGTTAGGTTGAAGAT

Sequence 3122

ATCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGTGGCGATACCGTAGGCGCCGTG  
TTGAGCGCCCATCCCGACATCGCAAAAGTCTCCTTACCAGGCTCAACGGGTGTCGGCAAA  
ATGATCCTGCGTACCGGCTCTGAGACCTTGAAGCGCGTCACTCTGGAAGTGGCGGGCAAA  
TCACCGGTGCTGATTCTCGATGATGCGGATCTCAAGACCGCTGTGCCCATGGCTCTCCAG  
GCCGGCTTATGAACAGTGGCCAGGCGTGCATTGCCGGCACCCGAATCCTGGTACCTGAA  
AATCGCCTTTATGAAGTTGAAGCCGCTGATGATCCAAGGAGGCGGCCAAAGTACAAGTCG  
GTAATCCCCGTGAGCCAGCCACCGCTGTCGGCCCCATGGTCAGTCATAAACAGTGGGAGC  
GGGTGCAGCGCTACATTACAGATCGGGATTGAG

Sequence 3123

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATACAGCTTCATATCTG  
CTAATGGAGAAAATAACTTAACTTGGCCCTGCCAGGCAACCCATTTTCTCCAGTTTAA  
AACTTAGTCTTTTTAGGTTAGCTAGGCCAATTCAGGTGCCGTCTACCTCTTTCTC  
CCATTTCTACACCACCTTCTTTTTGTCTCTCCCTGGGAGATATCTGAGCTTAAGGAAA  
AATTCGTTAAGAGTGGGGATCGGAGAGACCTCTGTTCCACTAGTTGCCTTCTGGACATTT  
TCTGGTCTCCACTGTTGATGTATCCATCCCTTCTGGCCTTTGGGTGCACTGAGGCATCTT  
GCTATTGTCTATGGTTATGCCATAGCTCCTAGTCAAAAGGCTCACATTCTTTTTATTAT  
TATTTTTT

Sequence 3124

CCGCGGTGGCGGCCGCCGGGCAGGTACTGATCTAACCAAGATATGTTGTTTTCTCATC  
CACCAGTCACTTTCTCAGTCCTTTCTGTATCCCTTGCAATTTGAACAAAGCTTGGTGAAT  
AGTGTGCACACAAAAAGCACACTAGGTGAAAGACAGATACATAAAAGGGTAAAGTCAGG  
ATATTTTAACAAACCTATCAAGCTCTAAATATAAGCCTCCTTGGTAGTTTTCTCTTAA  
CCTCTCTCCACTGTTGGATGAAATTTGCTGCATTCAATTCAGTTCACCCCACTTCC  
TTCTTAACACAAGGTCAGGGTTAAGCCTTCGGTGCTTTAATCCAGAGGGAAAATTACTTA  
TTTTAAAAGCAGTAAAAACACCGCATTCTTTGGCACAGGGATGAAGACC

Sequence 3125

AGGTACTACAAGCTGCATCACACTGAATATCATCTCCCTGCACTGCCATTTCAATTTGAG  
CAGGGCTTTGCCTGTCAAGAACATTCATATCTTTTGATAAACAGTGCAATTTTTCCCTGA  
TAGTCTGTATGGGACAGCCTCCTTGTGTCATCTGAAGGACAGGGACTTCAGGACCTCCT  
GCTGTGGTCACCAAGGAATCACATTCAAATCTCTCAGCAAGGTGTTATGGTCCTTCTCAG  
TTTGCCTACGATCCATTGAGGCAAAGGTTTCTTCTCTCAATACACCCTCTGCTTTAGCC  
AGGGGGACCTCCCACTGTCCTCTCTATGTGTTCTATTTGTTCTGACTGTTAGTACCTGC  
CCG

Sequence 3126

TGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACAGGTGAAAATTGAACCATGATCA  
GCCCGGATCTCTGACGGACTATGATCAGCACAAATTTCCAGCCAATTTCTATAACTCTTAA  
GAGGGCAATAATCTTGAGACACAGATATTTANCGCCTCTTCCACATCCAATGTTTTCTAC  
CATGAAATCATGTCTTTGTAATGATGTGAAAAACATTATAATACATTTTATATAAGTA  
GATTTTAAACTGTGATGAATTTCTAGCACCAGTATGAAGACAGAATTAGAATGCTATTG  
ATAATTTCAAATAAAAAAAGAAGGCATGCTTGAATACTGAGAAGAGATGTAATGCATTTT  
CTAAACAAAGCACACAGTTAATTAG

Sequence 3127

AGAGAGATGTTTTATTTTTGCCAAAGCATGTGGGAGTAAGTAGCAAACATCATGACACTT  
CACTCCTCAAATATTTTCCACGTATCACTTAANAACAAGGGCATTCTTCTGTTACATG

Table 1

ACCACAATACAATCAGCACAGATAGATATTAACATTGAGACAATGCTCTGATGTATTGGT  
ATCTACTATGCAGTTTATAATCAAATAAGGGTTTTGGTAACTGGGATCCATAAATGGTC  
TGCAAGGTCAGCCCCTGTANACCTGCACTNAGTGGGNGCCATTTCCCTGTCTCAGGTGCC  
TGCTCTACTGGTGATATTTTCACTGGCTCTGTTGCTCACTTANAATTTTTCTCCCAGC  
TGTTGACATTTTAT

Sequence 3128

GNCGAGGTGATGTGACCNAAGGACCGGCCAAACGCAGATGCAGACAGATTCCAGACTCT  
TCAGCAATCCTTCCCTTATCTGGGGCAAAGGCTGTGATGCCTACACAGTCTCTGNCAATN  
CATCCCTGATGCTCCAGTTTTTAGGAGANACCACCTNGTCATGTTCAAACCTCCAGAAAT  
GGTGGTCCTGTGGAAAGAATCCTAGGCCAGCAGCTAGGAGACCTGCTGTGAGTCCCANCC  
CTGCCATCACAGCTATGTCAGGTGGTTCANGACATGTTGGGCTTCAGGTCCCCATCTAT  
AATCAAAAAGTTTGTCTAGCTTCAACAATCTATGACTATTATT

Sequence 3129

CCGCGGTGGCGGCCGAGGTACATGTGACCCAAGGACCGCCAAACGCAGATGCAGACAG  
ATTCCAGACTCTTCAGCAATCCTTCCCTTATCTGGGGCAAAGGCTGTGATGCCTACACAG  
TCTCTGTCAATTCATCCCTGATGCTCCAGTTTTTAGGAGAAACCACCTCGTCATGTTCAA  
ACTTCAGAAATGGTGGTCCTGTGGAAAGAATCCTAGGCCAGCAGCTAGGAGACCTGCTG  
TGAGTCCCAGCCCTGCCATCACAGCTATGTCAGGTGGTTCAGACATGTTGGGCTTCAGG  
TCCCCATCTATAATCAAAAAGTTTGTCTAGCTTCAACAATCTATGACTATTATTCCG  
TTTACTGATAGAGTAACTAATTACTTCATTATAGGTTTTCAAGACCAGTTCCTCCTGTTT  
GGTCAATTAGCAAAATGCCAATGATTGTCATTGATTTT

Sequence 3130

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACTGATCTTAAACAG  
CTCTGGCTGTAAATCACTTTGCTGGAGTCAATGAGGTAAGAGGCTAGAACACAATACTA  
GGGATCTGACCCCTGCAGGCTGGCCATGATCCATCCCTCAGGCCGNTTCCCANAGCAGA  
AAAATCCAGNGAGCCACTTAATGAGACNTTTTCTTAAATGTTTTCTTAACTNNGACNAT  
TGCAACTGAAATTTATCANGAGCTGTACCCCTCCAAAANCCTNTCTCTTCTTTCNCTN  
TGCTCTNTCCCTCTTGCTGCTACTCTTTTACTGCTTTTATGCACCAAACTTCATGGTT  
TTTTTTTAAATGGAATGANGTTTCTTGGGGAANAAAAGATTNNANGATTTCATGGTAACAC  
CAATGAAAATTGT

Sequence 3131

TGGTNCTCCCCGCGGTGGCGGCCGAGGTACGTGGCGTAGCATTCCATGTTTCAGCTTTGAC  
ATTTATTTTCTCATATCAACCTTTTTACACGTGAAACACAATCTCGCTCTTGAAGTCTT  
AACTGCACGA.TCTGTGAAACCTGTATTTATATTTTCTTCAGTGTATTCTTGCTGTGTG  
TGTCCTAAAC.AAACC AAAAGAAAACCTTCCAAATCTAAAGTATTCATTCTCAATTGGAG  
CAAGAGGAGTCAGTTAGATACTATCACGGCATTCAATTTGTGGCTGGCTTGTCATATTTAC  
TTATGATTGATAATAAATCTATTTTGTCTTTTANAGCCTCCCCGAGAAGCCATCTGCCTT  
CGAAGCCCTGCCATNAGAAATGCAAAAGTCTGTATCCAAATAAAAGCCTTGGAATGA  
Sequence 3132

Sequence 3132

CGCGGTGGCGGCCGCGGGGCCATTGAGGACTGCCATGGAATGACTTGAAAGGTCACGTAAG  
CTGAGACTTCTGGAGAGACCATCAAGGCTTCTGGCTCTTGACAAAGATAGACCACTGGA  
ACAATGANAAGGAGAGAATNCTACTGGTCACAGACAAGACTCTCTTGANCTGCAATACG  
ACTTCATCATGCTGAGNTGTGTGCAGCTGCAGCGGATTCTCTGAGCGCTGTCTATCGCA  
TCTGCCTGGGCAAGTTACCTTCCCTGGGATGTCCCTGGACATGGAAGACAAGGAGAAGG  
CCTNATGNATCTACTGGGGGAGTCCCAG

Sequence 3133

TGTCACCCAGGCTGGAGCAAGACTCCACTTGTGAAAATTTTCATCAGTTTCTCCAGATG  
TAAAGAATCTCTTCGGCACACTCCAGGGAAGGGGCACCCNGTGATTTTCTCCTTCACG  
CTCTGGAACAACCGCCTCAGCATCGCTGCAGCATCGCTGGTCTCGCTGGANAAATGG

Table 1

GCCATNTTTGGGGAAGCAGGGGTCCGCGAGGTTTCGCCTNTGGTNCCTN

Sequence 3134

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCATGGTACATATATG  
GGACTTGTTAAACAGAAGGTTTCTTGGGGTGATTTTTTTAAAAACCCAAAATTTTAAACA  
TCAGGTATTTTATCTGGTTGGGGAATTAAGCCCAGGAAAGAAAAACCTCTAGAATATTCC  
TACCCATACAGCCTGATGCACACCCGTGGGCCGTCTTTAATACTACAACCTATTGAGTAA  
ATGACAATGCATAGCACTCTCAATGCCCTCGTGCCACCCTAATGATTGCTCTACCTTTCT  
GCTTTCAAAGACAGTACCT

Sequence 3135

GAAATCCGGCGAATTGTTTTCCCNCGGNNCGGCCGTTCTAGTCACATTTGTTGTTGC  
AGCATGTTATCAGNAGAGTTTTCTTNACTCTTAAAAATGCCCTGGTNNGGATGATTGAT  
CATACCTGCCCCCATGCCACCCNACCACCCAAAAAGTGCANCCACCCTGTGGTGNGCGG  
TGTACCTTCGGCNCGCTCTAGAACTANTA

Sequence 3136

TTAGGGCGAATTGGANCTCCCCGCGGTGGCGGCCGCCGGGCAGGTAAGTGCCTGTGCGTA  
GCTGCATTAAACCAAATGATCAAGAATATCAAGATACATCTTCTGGATCTTCAATCCCA  
CTTAAAGATTGGAGAACATATCATTTTATATTAACCAATAACATTTTCAGAATACAT  
TTGAATAAATTTCTTTTTACCTAAAAACAAGAGTCTTTAATAAGTATCATTTTTGAGA  
TGCATTGCCATAGGATACATACTGAGGTGTCTTCTCTTTCTTACCTATTAGAGGCATT  
TCTGGGCAAGTTTGAGGAGCATGGAATTAACAGTCATCAATGCATTGCTGGATTTGAAAA  
TGATTTATATCAATCAGCAGAGGACCTCCACTGGTGATGTCAGCCAGGGATCTGAGGGAT  
GTTCAGGTAGGACATGCTATGCTTTGAATCTCC

Sequence 3137

CCGCGGCCGCCCGGGCAGGTANTNGCTGTTTNGGGCGNNTATCNATAATANTTTCTACTN  
GTTACTGAGTGTATCATCACCAATGTGATGATGCCACGATTNATTGAGTGCCTACTAC  
ATGCAGGCCCCAGGTCAGTGCTTTACACTCTTAAGTGGCATGTTGACAACAGCTCTGAAT  
GACAGGAGCTCTGTTCAAGTGTTTTACAAGTGAGAAAACTAAAGACACTAATAATTTTA  
AAAATATATCCACAGTTCTATGATTAGTAAGTAAGGGAGCTAGTCCT

Sequence 3138

AGGTACGCGGGGTAGATGGAAGGAAGAACTTGTGTGCTTAGACCTGACGCTGGGAGGAG  
ATGCTGCCACCTAGGTTACTTGTAGGACCCTATACGGCAACCTCCTTTGCCAGGAACCTAT  
TTATAACATCCTGCAGGAAAATGCAGTGAAGTAGAAAGAGACAGGGATATCCCAGAAGG  
TTATGCAAAACATCAAGAAAAGATGAGAGGTGAGAGATGGGAAGAAACAAGAACTTTGAC  
ATGCTTGGTGTTCTTGCCCAAGCTTTGAAGAAGTTTACAAAGTCTATATGTCAGAATACA  
CATTTCCACCTTGCCCAACAGTAGAAAAACATAAGAAGAGAAAAACATTAAAAAATGAC  
AAGGAAGTTAATGGAAGTCAGCAATGTGATGGTGTGTTGGAGGTGGAGCCTTCAGA

Sequence 3139

AGGTACCCTAATCCCACGGAACCTCCCTTGAACCAATACATTGCCACCTCCCCACTGAGA  
GATGCCAGACTCTTCTCCCAACTCTCCCAACCACCTTAACCAAGTCAGCCCCCTCCACAT  
AGTCCCTAGTTAAGATCAGAATGAGCTTTATCTGCTTTCTTAACTTTGTTGTTCTACC  
TCTGCAATCCCTCTTAGGCTATGGAAGTACTGCGGGATGAATCACCAAGCCGCAGCTGG  
GACTGCCTTTGTACCTGCCCC

Sequence 3140

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGGGAACTATTGG  
AGCACCTAAGAGGAGCACCTACCTTGAATTTAGGGGTTAGCAGAGGCATCCTGAAAAAG  
TCAAAGCTAAGCCACAATCTATAAGCAGTTTAGGAATTAGCAGAACGTGCGTGGTGAGGA  
GATGCCAAAGGCAAGAAAGAGAAAGAGTATTCCAAACAGGAGGGATTCCAAAGAGAGAAG  
AGTATCCCAAACAACATTTGCACAAACCTGATGAGGAGAGAGAATGTGGGGTGGGGATGG  
ATGATGAGACTGAAGAAGAAAGCCAGGTCTAGATAATCAGTGGCCTTGACCTGCCCCGGG

Table 1

CGGCCGCTCTAGGAACTAGTGGATCCCCCGGGCTTGCAGGGAATTGAATATCAAGCCT  
Sequence 3141

ATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACCGCACACCA  
CAGGGTGGCTGCACTTTTTGGTGTTGGGGTGGGGATGGGGCAGGTATGATCAATCATC  
CAAACCAGGGCATTTTTAAGAGTNAAGGAGGCTCTACTGATAACATGCTGCAACAACAG  
ATGTGACTAGGANCGGGCCGCTCTAAA

Sequence 3142

CCCGGTGGCGACCTCTGTCTAAANTTCTGAATCCCCCTCCNACAAAGACCCATTACAGCAG  
CATGGCCATGCAGCTGTGCTCACATCTCACCCCTGCACTGGCCAGGAACACATCTATCTT  
TCCTTTGGGTAGGGTCACCCAACTGCCTCGCCACTTCCAGCTGTGAAAAGGGCATCTATG  
TGACAGACCCCTCTGCAGTTTGAAACTGTGTGACAACTTTAACACCCAACTCAGCATCTG  
CATGGGTTTCTGAGAATTACCTATATCTTTTGGGTCTCTTTGCTGATTCTCTGTTTCAT  
TAAAAAATAAAAGTGAATCGTGACTCCCTGAGTTCCTATNTAGNCAATTTTACTTCACT  
AGCTAAAGGAAACACTGGGATTAAAAAT

Sequence 3143

GTNAAGAGCTGGAAGCAACCCAGTTGTGCATCAATGGGTAGNAATGGATGACTAAATTGC  
AGNGTATTCTTACAATAAAATACTATAGAGCAATGAAAATAAAATAAACTATTGGTGTTN  
TTANTGCNAAANCANACCATTGGGATAAAATCTTTACCAACCAAATTGTNTCAGGACN  
AAAATGTGTTNGCCTCAAAACCCCAAAAAAATTACAGCATGGTCNCCTATTGATATCCCC  
ANTANTAATGNCNACAGGGTTCCACGAAATAANGGTGGATTGNGCTTANGTCTTACCTT  
CCTTTTTGGG

Sequence 3144

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCGCTTGTGTGGTTTCC  
ATGATCCTTCTTCTGCCTGGAATGAGGCTCCTCTTGAGTCCTGAGAGCTTCATTTCGTCTGTC  
TGTCTTTGGGCTGTGCCAAGCCCTCTGCCTTCGTGGACTCCCCACTGATTCATTACC  
AATTTTCTCTCCCTCTNGGGCTCTTCTTAGATTGCAAATGGTGCCTCTGGATTGGGTAC  
CAAGACTTGCAGTGCCTTATTTTGATACCACTAATATGAGACCATGTTATATGCCCTTG  
AGATATCATTCCTTTCTAGCAATAGACAGTGATAANGCATNGCCGTATAGAGGGGTNNA  
ACGNATACGGAGCTNTNGANGTTNATTCATTCTCAATANGACAAAAAGTAAAAAGGTATG  
CTAAATTTCAATC

Sequence 3145

NGCCGAGGTACAAGGCATTTTNTACTGTAACCTTCCACTTAATCAACATTNAACAAA  
 AACACTCATTTCTGAACATTCAGTGCATTGATTAATCTTAATTACACCACAAAGGTA  
 TTTTCAATGGTGATTTTGCGGGAGTGGGGTAACAGTTTCGAAAGCAACATTGTCAGAAA  
 CATANGTTGAATTTAAAGGGTCTTTCTGGTGACTTTGACTTCTGCTTTTTAGAAGACC  
 TTACACAGAGTTGTATTTATTTCTCCTGGAATATTTNAAGCAATTCAGAGTGAAAGGGTA  
 TACATTCCAATTTGCGTATGAGATAAAATTTAGTACATTGAGGAAGCTATTTCTTTAG  
 TTACAGGGAAAAAAATTTGATGGGGCTTTTNGGAAGCCTCTTTGATTTCTAATAGGG  
 AGGGAAATCCCTGGAGNCACCTNGGTCCCACACNAGNAAAAATNCATCT

Sequence 3146

ACTACTTACGGGCGAATTGGAGCTCCCCGCGGTGGCCGGCCCCGCCGGGCAGGTACTAAC  
TTGGTCAGGGCAGGGTGACACATAAAATTAACCATCACAGGGAAGGGTAGGGCTGGAGAG  
GCAGACTGTGGCCAGGTTACAATGCGCTGAGGCTAAGGAGACTGTGTTTATCCTGTACGC  
CAAGTGGGTCTTACCTCTGAAAGTCTTTTGGGGTGGGGACATTCATGGACTTCAAGAGAC  
CTGTGAATGCCCTAAGATTATAAAGTNAAAATCTGTGAGTCTGTAACTAAAGCTAAAGCTA  
TTTTCTGGGGCCCCACCATCTAAAGAAGATTCTGAAGCCTTAGGGTAGCCGTGGAGGANA  
CATGAAGGTCCATTTTGCATGGTAGAACCTCGCTGGCTCTTGC

Sequence 3147

AGGTACGCGGGGGTACGATGGAAGGAAGAACTTGTGTGCTTAGACCTGACGCTGGGAGGA

Table 1

GATGCTGCCACCTAGGTTACTTGTAGGACCCTATACGGCAACCTCCTTTGCCAGGAACTA  
TTTATAAACATCCTGCAGGAAAATGAGTCTATATGTNAGAATACACATTTCCACCTTTG  
CCCACCN GTTGAATAANAANNNTAANAACAAAAAGGTTCTTGCCCGGGCNGGCCCG  
NTCGAGCAAAAAGGCCAGCAAAAAGGCCAAGGAAACNCGTA

Sequence 3148

CNAGCCGGGGAGCATAAAGGTGTTAAANCCNTGGGGGNTGGCCTTAAATGNAGGTGGAGC  
TAANCTCACAAATTTAAATTTGGCCGTTTNGCCGGCTTCAACTTGCCCCCGCTTTTTCCCA  
AGTTNCNNGGGNAAAAACCCCTGGTCCGNTGGCCCCAAGNCTTGCCATTTTAAANTGGAA  
ANTACNNGGGGCTCAAACTGCCCGCCGGGGGNGGAGGAAGGGGCGNGGGTTTTNTNGGCNG  
GTTAAATTTGGGGGGCCGGCCTTCTTNTCCCGGCCCTTTCCCTTNCGGNCTTTCAA  
CCTTGGAACCTTTCCGGNCTTTGGCCGGCCCTTCCGGGGNTNCCGGTTTTNCCGGGGNNC  
TTTGGCCNNGGGNCCNGAAAGGCCCGGGGTTAATTTCAAAGGCCTTTTCAAACCTTTCC  
AAAAAAGGGGGCCGGGGGTAAAAANTAAACCCGGGGGTTTTAATTTCCCAANCCA  
AGGGAAAAAATTTCTAANGGGGGGGGGGAAATTAAACCCGGCCAANNGGGGAAAAAAA

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Sequence 3149

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACCAGGTTCAAAT  
AGTCATGCACGCTCATCATAATCAATGAGCGAGGACATAAAGTAGGAAAAATGCATCACC  
ATGGTGAGCAAGGAAAGCAAGTTATTGGAGGCACATGTTAACACATAAAATATAAAATTN  
ATATGATCACACTGGGAAAGGCTTGCCCTGAGCCCCAGTTTGAATGCCTACAATAAGATGA  
GATGCACAACAAAAAGCAAGAGAACCTGATCAAGTGGGTGACCTGGCCATGGTGTCTCA  
TCAGTGGGGACCCAAATGCTTATGTGGACTCACCAGGTNTCGAATTAGACATGAATAGGA  
GTGTTTGTGTGATGGCAAGAACTATATAATCAAATGAATACAATGAAACTTTAAAAAT  
AATTG

Sequence 3150

ACTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAAAATGACCACAGC  
AGCATATTTCTAAGATCCCTGAAAACAGCTAAGATCCCTGAAAGCAACTCAAATGTCCA  
TCAATAGAATGATGGATATTATTCTACCCCATTTGAAACATTTACACACAAGTTTTGTGT  
TTTTTTTTTTTATTTAATTTATTTATTTTTCATGTCAATGAATCAAAGGAATCACAC  
ATAGGTTTTGTATAGAAACAGCACTACATTTCTGTAGGAGGTGCTTTTTCAAGATATCT  
GTGTTCACTAGTTGTAGCCTGCGACTAGAGGGCTCTGTGTCAAGCATTCCACTTGCTACT  
GATTCCTACCATACCCCTCTTTGTTCCCAAGAACATTGTACCTGCC

Sequence 3151

GCGAATTGTTCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACGCGGGTGGCCCGAAGTTA  
TGATAGATGAGGAGGGTATTTATCTGAGACAAACACTGGGAGGAAATTTCAACCAGAAGG  
AATATTAGCATGTGAGAAGGCATAGAATCATAAAAGGCATGTTGTGTTAAGGGAGCTACA  
AGTAGCACANTTTGGCTAATGTGTNCAGTTGAGAAGAGAGTTGTGGGCAGATAGGTTGGA  
AAAGAAGCCGTGAGTTAGATCATGAAGAGCCTCGGTAAGGAGTTTGTTTTAAAAACAATT  
ACTGAAAGATTCAAGCAAACACAATATTTATAGGTTGAAATATTGCCAGAA

Sequence 3152

GGTGGCTGCACTTTTTGGGTGGTGGGGTGGGGATGGGGGCAGGTNTGATCAATCATCCAA  
ACCAGGGCATTTTTAAGAGTAAAAGGAGGCTCTACTGATAACATGCTGCAACAACAGATG  
TNACTAGGAACG

Sequence 3153

CGAGCGGCCGCCCGGGCAGGTACTTTACTCACCTTCCTCTGACAGAAAAGGATGAAGTC  
AAGGGCCTGGTNGAGGCACCACTAAGAAAGGCATTTGAAAGGACCAAAGAGGTGACCAG  
CAAGCATTTTTGCAAGGCTGGAGGGAGCTGACAAGCTTCNCATGAAAGGGCTGGNACTC  
ACCCCANNTGGTTGGAAAANGCNNTCCANTCCTNGGNGTTTACCTTNGTNGCCTTGCC  
CCATTAATAATCACCAACCCATCAAGNAACATTTGGNTTGA

Table 1

## Sequence 3154

CCGGGCAGGTACACTTCTAGATTGCTCAATGAAAAGAACTCTCAATCCAAAATTTATGTC  
TAGCAAAGATATCCTTCCAGAGTGAAAGAGTAATAAAAAGAGTCTCAGATGAAGCAAAGC  
TGCTTTAAAGAATTGCTTTAAGAGAGTTAGNTAGAAGAGAAATGATACCAGAAGAAAAC  
TTGATATATTAGGAATTATAGAACAGCAATAATGTATATACCTGGGTAAACATAATAGAT  
GATGAGTTCTTCTAAGNACTTTGAAAATTGAAAGCAGAAATTTTAACATCATTTTAAAA  
CAATTTATTTCAAATAATAGAAGAAAAGCATGAACTGGCAGATTGGAGGCATCGTTAG  
CATGCCCCCCCCNACTTGAAAGAAAATATTAATAGTGTGTANGAGATTCACCCTGAACTT  
TTTCCA

## Sequence 3155

NCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGGCCGAGGTACCTGGAGTCATGGTGAA  
AAAGGAATCGTGGTTATGTCAGTCAAGAAAAAGGAGAGGAAATCAGAAAAATGAC  
AATAATTTTTCTTGGTATAGTCCAGTAAAGGATAAACAAAAAGGAATTATCCCCGA  
ATGCCCTCCTCTTTATGAATACACAGTATACCCAGCTGGCTTGACTATGATCATTACAC  
ATCTGCACTGCATCCATGCATTTGCAGCCTTTTGACAATACATATGGCCCATATGCTTCA  
AGAGAGATGAAATGCTTGTCTCAGTTAATCTACATGTCTACTTCTGGCTTCAATCTAAT  
CTTTCAGATGTTCAAAATCAACAAGATAATGTTTCTAGAGTAATGTGGGNAAATC

## Sequence 3156

GGTGGCGGGCCGCCGGGCTNGTACGCGGGGAGGTTACTNGTAGGACNTTATACGGCAACC  
TCCCTTGCCAGGAAGTATTTATAACATCCTGCAGGAAAATGGCCTCTTTAAATATACAC  
TTCTCTGTAGTGATGCTAGAAATGGAGTGGCTGGAATAAAAGTGGCTGAATCATCTTCA  
ACTCTAGTAGCTGAGACCAATGATGCTGACCTCCCTCAAAGCTGCATTTCTGAATTTCT  
GAAGGCAAAGTGTCTGCCTATATTGTACCT

## Sequence 3157

CCGCGGTGGCGGCCGAGGTACTTTGTGGGTTGAGGGTAGGAGGCTAAGACTGCCAGGGAG  
GAGGTCCCGGCTTCTGCTCCTACCGGGGAGCAGCAGGTGAACTCTGACCACGTTACTG  
CAATCCTGACATGCTCCAGTGGAGTGGCGACATTTTTCTTCTCGAGGCAGCTTTTGGGA  
TCTGTATTACTTTTCATGTGGACCACTTGCTAGTTTTGATTCAATGATAATTTCTTCTT  
CCTTTTTTTTTTTTCAAGCCTGTCTTCATAGNGATGACAACACATTTAACATTTGTTTTG  
ATTTT

## Sequence 3158

AGCTCCCGCGCGGTGGCGGCCGAGGTACGCGGGGAAGCTAAAGAGGAGATCGTTTTTATT  
TCATAGCGAGAAATGGCTTCCGGGTGCTGAGTAGAAGGGGCAGGCATGTTGGTAGTGGG  
CTCTCCAGCCCTAGAAGCATGCACGCAGAGCCTCTGTAGGACTTTTTTTTTCTTTT  
AAGACAGAGTCTTGCTCTGTGCGCCAGGCTGGAGTGCAATGGCGCAATCTCGGCTCACTT  
CAGCCTCCACCTCTCGGGTTGAGGCGGTTCTCCTGCCTCAGCCTCCCGAGTGGCTGGGAT  
TACTAGGCACCTGCCACCACACCTGGCTAATTTTTTTTTGTATTTTAGTAGAGACAGT  
GTTTCGCCATGTTGGCCAGGCTGGCCTCGAACTCCTGACCTCGGGTGGNCCGCTGTCTC  
GGCCTNCCAAAGTGTGGGATTACAAC

## Sequence 3159

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGGCCCGGGCAGGTACGCGGGAG  
ACTCATTAAAGCTCCTAAATGTATACATATGTATCAGAAAGGAATGTGAACATAAAGGA  
AACTTGGTAGACAATGAAAGAATTTGAAATCTGAAGGCTTTAAGAGACAGAGTTGTAGA  
TCAACCCCTCATACCAAATAATCAACTCCAAAGTAAACTTTGAATATAAACTAACTGCA  
AAAGAAACCTTCGCGATATGTAATAAGATGGCACACGCTGTGCTTCTGAGGACATGTGTG  
GATGCCTCCCCACGTCCT

## Sequence 3160

ATCCGGCGAATTGTTTTCTCNCCNCGGCGGGCGGGCCCGGGCAGGTANTGGAGTGGCT  
GTGTTGAGTCCTTTTTNTNTTTTGTTCCTGAGAAAGAGAGATTCACAACTTCCCACAT

Table 1

TCTTCCAGTGGCATCTAAGGATCCCTTCTAAATGGCCTTTCTCCCAGCCAATAGACTGA  
AGCAAACCATGTCCCTGATGCTTCCTGCCACCACCATCCATTCTTTCAACCAACAGCTT  
CTCCGGGCTTTACGTGCCATGCACCTTGCTAAGAGCTTGAGGGAAATACAGCAATGAAG  
AAGAGATGATTTCTGTTTGGACCAAGTGCTCAGGGATTCTCCTATTAGAAATCAAAGAGG  
CTTCCAAAAGCCCTACAATTTTTTCCCTGTAACATAAGAAAATAGCTTCTCAATGTAAC  
AAATTTTATCTCATACGCAAATTGGAA

Sequence 3161

CTATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACAT  
GGCAACTGAGGCAAAGAGCTCTTAAGTTACTTATCGAAGAATATCCAATAAGTAGGTGGT  
AGAGCTAGGATTTACACCCAGCAGTCAGCTTTATTTTCAACCATGCAATGCCTCCTTAAC  
AAAGGAGATAGGTTAGGAAAGGCAGATCTGGGCAAGTGTTGTATTATACAACAATAAAAA  
GGCTGTGGGGTCAAAAGCTATGGCTGTTAAAAGGTTAGGGTAACAGCCAGAAGAATCACC  
CTTAGGAAGGTTAAAATTTAGGACAACATCTATGATCCTTCCCAAACCTTAAATCTTCAT  
GCTTTTAAAAAGAAATTTCTGCCAGGCGTGGTGGCTCACGCCTGTAATCCAGCACTTT  
GGGAGGGGGAGGCGGG

Sequence 3162

ATCCGGCGAATTGTTTCTCCCCGCGGCGGCGGCCGAGGTACAGGGGTGNGAGAAAAGAATG  
CTNGAAAGGGCAGCCTTTNNAGTGTTTTATCCTAAGACCATCTAAACGTGAAGGAAGTCC  
ATTCCAGCTAGTGAGGAGGTGCCTAACACAGTGGTTTCAAGCCTGACTGACCACAGAGTT  
ACCTTGGTAGCATATTAAAGGTCCTATTCTACATCTCACCCTAGAGCACCTGTTTTCA  
ACCTTAGATGCACAGTNGAATTAAGTGAAGAACTTTTAAAGCCATCATTATCCAGGCCCA  
AATGCAGTATTGNTAAATCAGAATTTCTGGGGATGTTGCTCAGGCATCTTTTTTAAATTT  
AATTCCTGGGTATACCAAGGATTGAACTTGGACACTCTATATACTGGAATCAAA

Sequence 3163

CCGGGCAAGGTACTCTGCGTTGTTACCACTGCTTCCCGGGACTCTGCGTTGTTACCACTG  
CTTCCCGGACTCTGCGTTGTTACCACTGCTTCCCGGGACTCTGCGTTGTTACCACTGCT  
TCCCGGGACTCTGCGTTGTTACCACTGCTTCCCGGGACTCTGCGTTGTTACCACTGCTT  
CCGGGACTCTGCGTTGTTACCACTGCTTCCCGGGACTCTGCGTTGTACCT

Sequence 3164

GCGGTGGCGGCCGCCCGGGCAGGTACCTGGAAAGATGAACANGATTGCAGCAGATTNAGA  
CAGGTANAAGGAGAGAGATTCCAAGTGGAAGGATAAAGGAGAGGGAAGAGAAGCAAAGAG  
TGCAGCTTCCAAGAGATTTTCTGGTTTCTGGCACTGGTCANAGATAGCTTGGGAGGAAA  
TAGGCANANAGGGTTTTGGAGAAACAGAGCTGCAAAGCCAAGTTAGATGTTAGGTGAGTT  
GAAAAAGAACTTATGGCAAAGCAGAGGGAGGGAGGTATTTACTCTGAACAGAGATGAC  
AGGGTGGGGAGGACAGATTGTTTTGAGTAGGCAAAGGCCAGGAGCATGAAGCAAGCTAGG  
AATTGGGAGGCTGGCCTAGAANCATGCNCCANCTGGGAAAGGGACA

Sequence 3165

CCGGGCAAGTACCACATCCCTGTCAATCAACAACTTCCCCTTCCAAGAGGGTGCTGATCA  
CAGACTTTTACTGTAATGGGGCCAAGAAGAGACAGTTACTTAACTAATAGAGTTCTTT  
TTATAACAAGAGACTGCAGATATCGCTACAGAAAGAATACCGGTTGTATGTTTCCTGAAT  
TATTACT/AAAACATTTGTTTAAATGTCTCATATATAAAGGTGATGGCCTTATCTCTGAC  
AATGAA?TAGGGCCTAAGGAGAAAGCAAATTGGAACACTGTTAACATTAAAAAGTCAGCT  
AGTCTTTGAAATACCATTATAATACTACCTTGAAGATACAGCAACTCAAATCTTGTTCT

Sequence 3166

AGGTACTCTTGGTTTTTTAAGACAAAGAGCAAATCCTCCCCTGCCAGGATTGACTTTTGG  
CTCTTTTTTTTCAAACCTCACTGCTTTTTGGTTTGTGTTGTCATAAAATGCCAAGCACCAT  
GAACAGGGCTCCATGAAGGGGCTCAGAGGTAGGAGGGCTGTGATTAGGAGAAGGCTTGGGA  
CTGATGGGCNATTTGAGTGCTCAGAATTAGAGTGAGGGGGTGGGGGTGTCAGGGACAG  
ATGCTGGGGAAAGACACCCTGAAGGGCAAAGGGAGCAACAATGGCTGCAGTACCTGCCCCG



Table 1

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Sequence 3167

AGGTACGCAACATGACATTGGCTGGTGTAAGATCTTACAATTATTTTAAAGTTTCATT  
GTATTCATTTGATTATATAGTTTCTTGCCATCACAAACAACCTCCTATTCATGTCTAAT  
TCGATACCTGGTGAGTCCACATAAGCATTTGGGTCCCCACTGATGAGAGCACCATGGCCA  
GTGCACCCACTGTATCAGGTTCTCTTGCTTTTGTGTGTCATCTCATCTTACCCGCGTAC  
CTGCCCGGGCGGGCGG

Sequence 3168

[illegible]

Sequence 3169

CCGGGCAGGTA CTCAAGCTGCATCANGNTGAATATCATCTCCCTGCACTGCCATTTTCAT  
TTGAGCAGGGCTTTGCCTGTCAAGAACATTCATATCTTTTGATAAACAGTGCATTTTTTC  
CCTGATAGTCTGTATGGGACAGCCTCCTTGTTCATCTGAAGGACAGGGACTTCAGGAC  
CTCCNGNTGTGGTCACCAAGGAATCACATTCAAACTTCTCAGCAAGGTGTTATGGTCCTT  
CTCAGTTTGCCTACGATCCATTGAGGCAAAGGTTTCCTTCTCTCAATACACCCCTCTGCTT  
TAGCCAGGGGGACCTCCCACTGTCCTCTCTATGTGTTCTATTTGTTCTGACTGTTAGTA  
CCT

Sequence 3170

AGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGGTGGAGTCTTGCTCTGTCTCCCANGC  
TGGAGTGCAGTGCTGCTATCTTGGCTCACTGCAAGCTCCACCTCCTGGGTTACACCAATT  
CTCCTGTCTCAGCCTCCCGAGTAGCTGGGACTACAGGTGCCCGCCACCACACCCGACTAA  
TTTTTGTATTTTGTAGTAGAGACGGGGTTTACCATTGTTAGCCAGGATGGTGTGATCTC  
CTGACCTNATGATCTGCCCTGTTTACGCCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCA  
CCATGCCTGGCCTCTCACATGCCTTTTACTCCTTTGTGGTTGCTGCTCATCTTTCAACTT  
TCCTTTCTAATTTGTCAAATGTTTTCTATTTCAGCTTCATTAGAAGCTGTAGCATCTT  
TGCATATTTCTGTGTTAACAATTGGCTTGGTCTATTTCTCTGTAGAACACCCAGAGTCCTG  
AAAGTAGTAAAGACCTTGGCCTTGAAGCAGGAGACCAGGGTTCAAGTTTCATTTCTGTCA  
TTTATGAGATGGGTAGCACAGGAAAGTTGCATCTCTATTTTANGCTTAATTTTCTTACCT  
GTAAA

Sequence 3171

CACTTAATCAACAAAAACAAAAACTCTATTCTGAACATTCAAGTGCATTATGATTAAT  
CTTAATTACACCACAAAGGTATTTTCAATGGTGATTTTGCGGGAGTGGGGTAACAGTTT  
CGAAAGCAACATTGTCAGAAACATAGTTGATTTTAAAGGTTCTTTCTGGTGACTTTGACT  
TCTGCTTTTTTGAAGACCTTACACAGAGTTGTATTTATTTCTCCTGGAATATTTCAAGC  
AATTCAGAGTGAAAGGGTATACATTCCAATTTGCGTATGAGATAAAATTTAGTTACATTG  
AGAAGCTATTTTCTTAGTTACAGGGAAAAAATTGTAGGGCTTTTGGGAAGCCTCTTTGAT  
TTCTAATAGGAGGAATCCCTGAGCACTGGTCCAAACAGAAATCATCTCTTCTTCATTGCT  
GNATTTCCCTCAAGCTCTTAGCAAAGTGCGATGGCACGTGAAAGCCCGGAGAAGCTGTTGG  
TTGAAAGAATGGATGGTGGTGGGAGGAGCATCAGGGACATGGTTTGCTTCANTCTATT  
GGCTGGGAGAAAGGCCATTAGGAAG

Table 1

## Sequence 3172

CGAGCGGCCCGCCGGGCAGGTACGCGGGAGACTGAGTGGGGTCACAGCACAGGGCACTGT  
CTTGCCCTGGCTTTATCTGAGCCAATCACACCTCTCCTGGCCACTATCTGTGGTCTAGCCC  
CCTTTGTGCAGAAAGAGAAAGAGAGCCTTGAGGACCAGCCTAGTCAGGCTGAAGAAATG  
TCAACAATTGGGAGTTTTGAAGGATTCCAGGCTGCGTCTCTGAAGCAAGAGGGAGATGAC  
CAACCCTCTGAGACTGACCACCTATCGATGGAGGAAGAGGACCCGATGCCAAGACAGATT  
TCAAGGCAGTCAAGTGTGACCGAATCAACTCTTTACCCCAATCCTTATCATCAGCCTTAT  
ATCTCACGGAAGTACTTTGCTACA

## Sequence 3173

CCGGGCAGGTACAGATGCAAAAACCTCANNTCCACAAATGTCCCGTGGCTTATCTAAAGCT  
ACACAGCTAGAAAGTGTGAGGACGGGAATGAAACACAGAGAGTGACCTGTCTCTGCGCCT  
GTGCCCTGTCCATACTTTCTGTCCCCAAGAGAGCAACACCATAGATCCAAACCAAAACCC  
CAAAAAGNNNACTCTAGGAAATGCACAGGCTCCACTTCACTCCCAGGAGATTCTTATGG  
ATCTATGGAAGAAATGAGGCANTGACCGAGGAATTTAAACTCTGGGGTGAAATCATTTC  
CTCCCAATTATTCTTCGTCTAATGACAAAGATGCACCACTAAAAAGTGACCTATGCCCT  
CTAACANTCTGAGAAGATCTGAGTCACATGGCAATTCTATTTGTAACATTACAAGATTAT  
AGAGGCCAGTTTTCCCTTCCTCCTCATTTTCTCTCCCCATGACATTTTAGAAAGTCA  
CNTTCATTTATTTATCATTAGCTATATGCCCTTAACCCCTGGCC

## Sequence 3174

AGGACAGAGGGTCTGCAATCATGGTGCAGCCACAAGTAAAAATATGAGTAGTATTTATGCT  
TTTCTACACTCTCATATGTATTGCCAGCTTATTTACTTATTTACCTGTTTACTTATTA  
AACCAACCCCACTTCAGTGGATGAATATTTGCCAACTCAAATGACAGTAAAAACGGT  
GCAGNGGCTCACGCCCTGAATCCCAGCACTTTGGGAGGCTGAGACAGGCAGATGGCTTGG  
GGCCGGGAGTTTGCAGCCAGCCTGGCCAACATGGTGAAAACCACTCTACTGAAATTAC  
AAAAAGTAGCCGGGCATGGTGCCACATGCCTGTAATCCCAGCTACCTCGGAAGGCTGGGG  
CACGAGAATTGCTTGAACCCAGGAGGCAGAGGTTGCAATGAGCTGAGATTGCACCACTGC  
ACTCCAGCCTGGGTGACAGAGTATGACTCTGCCAAAAAAAAAAAAAAAAAGAGTAGAA  
GGANTTATAGCCCNCAAGATTTTCCAGGGCAATTCAGAGGAGACCCAACAACCTGTTAGG  
GACTATGCCCTATTGNTAAATGNTATATAACCTCTGAGGCTGATGACTTTGAGAACA  
CCTACACTGACTTGAAAATTCA

## Sequence 3175

AGGTACCCATCAGGAATATCCGGCTCAGAAGCCAGGGCCTCAGAGACTGTTCTCTCACTG  
AGACCTAGAGAGGGAACCTCCCTGTGTTATTTCACTGATGGCCCAGGAACCACTTGCA  
AGTCATGACCACCAAGCATCATGTAGCACTGGAAGTATCTGGGCAATGACCTCTGTCTAA  
ACTTCTGAATCCCCTCCGACAAAGACCCAAGACAGCAGCATGGCCATGCAGCTGTGCTCA  
CATCCCACCCCTGCACTGGCCAGGAGCATCTATCTTTTCTTTGGGTAGGGTACCCAA  
CTGCTCTGCCACTTCCAGCTGTGAAAGSCATCTATGTGACAGACCCCTCTGCAGTTTGAA  
ACTGTGTGACAACTTTAACACCCAACCTCGGCATCTGCATGGGTTTCTGAGAATTACCTAT  
ATCTTTTGTGGTCTCTTTGCTGATTCCTGTTTCATTAAAAAAAAAAAAAGTGACTCGTG  
ATCCCTGAGTTCCTATATAGCCAATTTTACTCACTAGCTAAAGAAACACTGTATTTAAA  
TGACAAACCTAGCAACAATTAGGCAAGCTCTCATCAGGACTCCATGCAGGGCTGNGTGAT  
TGCCTAAAAAGTCT

## Sequence 3176

AGGTACATATACCAACTGTCAGTCTGTGGTAACGTAACCTTAGACGCTGCCTGACCACAA  
AGTTTGAAATTATATTTAACCAAAAGAAAAATAAATAACAGCAGGTTACCTTGTA  
GAAATGCCATGTGTTCTAAACAAATTAACCCACGGTCTGACATTTGTATCCATCTATGC  
TTTTGAATTGAGGGGATTCTTTAGTTATAATGTGCCAAGTGAGATTAGTAACCAACAGG  
AGGCTTAGAAAAGCAAATCCATACTGGTTCATCACACACAAGAAAGAAATACCTGGCTAA  
AATGAAATCACTACAGAAGCATCGAGGACATTGTTTTTTAAAAAT

Table 1

## Sequence 3177

CCGGGCAGGTACGCGGGAGACTAGAGGGAATTGCACCTCCTCACTGCACAAGATTAGCTA  
ATGCGGGTGAAGCTATTGGAGTGCTTCTGAAGAAATCAAAATTTGTTATTATGATTATA  
CTTGTTAGATAATTTCTTCTTGAGATTCTAAATGAATTTGTTAATGCCTTATTGGTCCA  
TTCCTGCATCTCTGCTTCCAGAAGCCAAGAACAAGTTCTCTGGATCACATAGGCTCCTCT  
GCTGCTTCCTCAGAAACAGAGATGGTACCT

## Sequence 3178

AGGTACGCGGGGACCGGGCACTGTTCTAAGCCCTGGAGATACATCAGTGAGCCAGATAG  
ACACATTTCTTGCTTTTCATGGAACCTTAAATAGTATATGTAATCAACCTGTTTTCCATTT  
TTTAGAACAAATGAAGAGTAGGGCAGGAGTGGAATGAGGGTCAAAAGTAAGCCTTGGAGTC  
CTGCCCCAAAGTTTTCTAATTAGATTATGAAGGAAAGACCTTATGCAACTAAATTACCCA  
TTTGGGTCAAGTGAGTGCTCATGCCTGTAATCTCAGCACTTTGGGAGGTCAAGGCAGG  
AGATCACTTGAGGCCAGGAGTTCAAGACCAGCCTGGCAAACATAGGGAGACCTCATCTCT  
ATAACAAATTTAAAAATTTGGTAGGGCATAATGATGTGCACCTGTGGTCCCAGCTACTCAG  
GAGGCTGAGGTAGGAGGATCATTTGAGACTGGGAAGTCGAGGCTGCAGTGAGCTGTGATC  
GCGCCACCGCACTCCANCCTGAGAGACAAAGGGTCATTTTGTGTCCTATTGATATTTGTA  
ATAATTAATGGTCTTGTTGCCCTTAGGGNTGCTTNCCTTTT

## Sequence 3179

AGGTACTCACAGCTGCATCACACTGAATATCATCTCCCTGCACTGCCATTTTCAATTTGAGC  
AGGGCTTTGCCTGTCAAGAACATTCATATCTTTTGATAAACAGTGCAATTTTTCCCTGAT  
AGTCTGTATGGGACAGCCTCCTTGTTTGCATCTGAAGGACAGGGACTTCAGGACCTCCTG  
CTGTGGTCACCAAGGAATCACATTCAAACCTCTCAGCAAGGTGTTATGGTCCTTCTCAGT  
TTGCCTACGATCCATTGAGGCAAAGGTTTCTTCTCTCAATACACCCTCTGCTTTAGCCA  
GGGGGACCTCCCACTGTCTCTCTATGTGTTCTATTTGTTCTGACTGTTAGTACCTGCC  
CG

## Sequence 3180

CCGGGCAGGTACCTTGCCCTGAGGAACCTACAAGTTAGCCTCCCTCTAATCCTGGCATTG  
AAAGTCCTCCACCTTCCGAATTACACCTGTTTTTTCAGGCATTGTCTCCCACTTTCCCTAG  
CAAGCCTTTGGCTCCAGGAACTGTTCTGTTTATTGACGACAGAATGTATTTGTCCCGT  
ATGCCTCCCTTCAATCTGAAGTTTCAATTTTAGTAATTTTTTTTATTAGCAGTGACTTTCC  
CCATTTACTAATGCCCTTTCTCTTTAGCTCATTTAGAATCCCTGGAAAGTCATCATGTTTT  
CCTTCTGAATTGCTATCATATTCTGTCTCTGTGCTAATCAGAAAGTTAGGTGAGCTGCT  
GTCTCAGCTCCTGTGTTAATCCAGGTACCT

## Sequence 3181

AGGACTAGCTCCCTTACTTACTAATCATAGAAGTGTGGATATATTTTTAAAAATTATTAG  
TGTCTTTAGTTTTCTCACTTGTAAGCACTGAACAGAGCTCCTGTCATTAGAGCTGTTG  
TCAACATGACAGTTAAGAGTGTAAGCACTGACCTGGGGCCTGCATGTAGTAGGCACTCA  
ATAAATCGTGGCAATCATGACATTGGTGATGATGACACTCAGTAAGTAGGTGTTATT  
ATTAAGTTCGCAAAACAGCTAGTACCTGCCCG

## Sequence 3182

CCGCGGTGGCGGCCCGCCGGGCAGGTACGCGGGTCTACGTGGTGGTTGGAGCTGCCAAGG  
GCACCCAACCTGGTCAACAAATTAGTGTGCTCAGCCAGAGGCAGTCCTGGATGAATTCAG  
GCTGCAAAGTGCCCTGTGACCTGGCCCTTGGGAAGCCACGCTCTGATGAGGTTGCAGAT  
CTCCCCGCAATCCAGGGCCAAGCATGAATGAAGGTGTTAGGCATTTCAAGGATGCGACTA  
GGACGTGCTGCTGTCTCAGGTTACATTATACTGAAATAAGGTCCTGGCCAGACAGCACC  
ATATAGTTAATTGAGGTGTTGGGAGATACTCAAATGGGTGTTAATTTCCAGGCAAT  
ATTTTCAAGGCTCAGAGCCTCTATTCAAAGATAACTGAAAGGCTAGCAAAGGTTATTGC  
AAAGGTATATTCTGATTCTGACAGGAAGATCGATGGATGGACAGTGAGAGTATAAAGAC  
CTTAGGGTTTGGGGTCTGATTGGCCCTTGGTCTGTTGAATGATTGATTCATTCATTCAA

CAAATATTTATACAACACCCACAGGGGGCAG

CCGGGCAGGTACTTAGCACATGCCAGGAAGTGTCTAAACCCCTTCTGTGCGTTAGCCCA  
TTTAATCCTCATAGTAACTCAGTGCTATCTCTGATATCCCTGTGTTACAGTTGAGGGAAC  
TGAAGTATAGAGAAGGTTGAGCAATGGCATGCAGGGCATAGAGAAGGGTAAGGACGACTG  
TAAACAGGTCAAGAAGTGAAGGTCAGATAATTTACCCTGATTGCACAACTGGTAAGTAG  
TGGTACCAGATTGAGGCTCAAGTCTTCACTCTCACAGCAGGGTACTTTCTGCAACTTCAG  
TTTCTTATTACCATTTCTGCCACTAGCATGCAGAAGACGCTAGATGATTATTGAATCAGT  
GAGTTTCTCATAGGTAAGATGGAATGATTCTTAGTAGGGTTTTGTGAGAATAAAATGG  
AAATTGTACATTTCTTAAATGATTTTTGGGTAGTAATAGCTATTATGATGCTAGTGGATA  
ACACAAGAGTTCAAAGGTGACCAGTTAGATGTGGAGGAGGGAAAGAGTTGTGTAAAAGAT  
GATGAGTGTCTAGCCTGAT

AGGTACGCGGGGAGACTAGAGGGAATTGCACCTCCTCACTGCACAAGATTAGCTAATGCG  
GAAGCCAAGAACAAGTTCTCTGGATCACATAGGCTCCTCTGCTGCTTCCTCAGAAACAGA  
GATGGTACCTGCCCCG

CGGCCGCCCGGGCAGGTACAGAAAGAGGTTTGCTGACTTAAAGTGATTGTGCATCTTCT  
TTTTCCACTCTCCTAATCATGATCTGTTCCCCCTCCTGGCCCAATAACTTAATGCTTGTA  
AACTGAGGTCCACCCATTTATGGAAACTCTTTAGTCACAGAGTTCCTAACACCCCTCCT  
CTGTCCCTGTGACAATGTATTGAAAATAACAGTTGAAGCCCCCTCTAGAGGGTGGTCCAAG  
TTGACTAAATGGGTAGCAGTGAACAGCATTAAAGGAAAAAGAAATAAAATAACACACAGA  
AAATGCTACATAGACAACATACAGCAAGATAGCTTTTTATAAAAAAGTGTTTTTAATTACA  
CATATGCCATATTTCACTGAATCACAGATCATCTTTATTGGAAAAAGCAAAACTTTATGT  
ATCACCCAGAANGAAAAAANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNGTCCCT

TGCCTTGATAGCGGCAGCCGGGGTCGGGAACAAGGTGTAGTTCTGGTTGCCGTCGCCAGCCA  
CGCCGTCCGCCGTGCCGCCGGCTGTGCCCGCGCCGGCGGGCTGGCCGTACAGCGCGGGCG  
GCCCGGCCGCGTAGATGCCGTCCGCGCCCGTGATCTGGTCCACGCCGTACACCACCACGG  
CGCCAGCGGCAAGGCCGCGCCCAAGGGTGGTGTCAGCAGCTGCTGTGCGATGGTGGCGGCCG  
CGCTGAAGCGCGTGGCTTCGTCCGCGCGCTGCTGCTGAGCACGGGACTGACCGTGCGC  
TGATGGCGTCGGCCAGCGTCTGTTTCGCCT

CCGGGCAGGTACCTTGCCCTGAGGAACCTACAAGTTAGCCTCCCTCTAATCCTGGCATT  
AAAGTCCTCCACCTTCCGAATTACACCTGTNTTTCAGGCATTGTCTCCACTTTCCTAN  
CAAGCCTTTGGC

CCGGGCAGGTACCAGCACGTGCAGAAAAGAAAGAGTCTCCGCTTGCTTTGTCTGATTCT  
CCTGTCTCTCCATGGAAGTTACATTTTCTGTAAAGGATGAGCTGAAAATTCTCTGGTC  
GTTGCCAGTTGAACCTTCTGCTGTGCTCTGGGAAGGCATTCTCACTCTGTTTATGTTGTCT  
AAAGTGCAGACATGGATGTGCAGGTTTGCTAGAACCTCCTGAGGATGTGCA/

[illegible]

Table 1

[illegible]

Table 1

TGTCGCTGNAAATCGCCGNCATCGCCACGCTGATTGCGATGGTACTCGGCACCCTGGCGT  
CGGCGGCGTTGTATCGCCCGGAGTTCTTCGGCAAGCA

Sequence 3196

AGGTACCAGTAAATGCTGCCTCATCACCTACACCCTTGGTTTACTTCTCAGATAAACTCA  
GGAAGTTTAAATGGCATTCTGAGAATCTGTAGCTGCAACATAGTGAGCCCAGGAGTCCCG  
GTCCAGCAGCTAGTATTAAATTCTCTGTTGCTAGCTTGGACCTCTCTCGATATCTAGGAA  
TTGCTGCGAGTGTGGGGTGGCACAGTAACAACCATTTGTTTCTCAACAAGAATCTGATAA  
TGTTGCTTGAACCTCCTGAACCAGTGCTGCATGCTCTGCTTCTTCATATGTTTGTCCCTTA  
GATTTGACCAAAAACAATAACTGATAATGTAATACAGATTCCCCAGCTCCCTGTGAGCTG  
GTTGAGCCCAGGAAGTCTGTACCTGCCCCG

Sequence 3197

AGGTACAGGGAACCTATTGGAGCACCTAAGAGGAGCACCTACCTTGAATTTAGGGGTTAGC  
AGAGGCATCCTGAAAAAAGTCAAAGCTAAGCCACAATCTATAAGCAGTTTAGGAATTAGC  
AGAACCGTGCCGTGGTGAGGAGATGCCAAAGGCAAGAAGAGAAGAGTATTCCAAACAGGA  
GGGATTCCAAAGAGAGAAGAGTATCCCAAACAACATTTGCACAAACCTGATGGGGAGAGA  
GAATGTGGGGTGGGGATGGATGATGAGACTGAAGAAGAAAAGCCAGGTCTAGATNATCAG  
NGGCCTNGTCCTGCCCGGGCGGNCGCTCTAGAAGTAGTGGAT

Sequence 3198

CCGGGCGCGTACTAACAGTCAGGAACAAATAGAACACATAGAGAGGACAGTGGGAGGTCC  
CCCTGGCTAAAGCAGAGGGTGTATTGAGAGAAGGAAACCTTTGCCTCAATGGATCGTAGG  
CAAAGTGAAGGACCATAACACCTTGCTGAGAAGTTTGAATGTGATTCCCTNTTNACCA  
CAGCAGGAGGTCTGAAGTCCCTGTCTTCAGATGCAAACAAGGAGGCTGTCCCATACAG  
ACTATCAGGGAAAAAATGCACTGTTTATCAAAGATATGAATGTTCTTGACAGGCAAAGC  
CCTGCTCAAATGAAATGGCAGTGACAGGAGATGATATTCAGTGTGATGCAGCTGTGAGTA  
CCT

Sequence 3199

TCACTGNCCGCTTCCNAGTCCGGGAAACCTGTCGTGCCAGCCTGGATTAATNAATCGCC  
CANCGCCCGGGGAGAGGGCNGNTTGGCCGTTATTTGAGGCGCTNTTCCGCTTTCCTCG  
CTTNANTTGACTTCGCTTGCCTNCGGTCCGTNCGGGCTTGCGGGCGAAGC

Sequence 3200

AGGTACCAGTAAATGCTGCCTCATCACCTACACCCTTGGTTTACTTCTCAGATAAACTCA  
GGAAGTTTAAATGGCATTCTGAGAATCTGTAGCTGCAACATAGTGAGCCCAGGAGTCCCG  
GTCCAGCAGCTAGTATTAAATTCTCTGTTGCTAGCTTGGACCTCTCTCGATATCTAGGAA  
TTGCTGCGAGTGTGGGGTGGCACAGTAACAACCATTTGTTTCTCAACAAGAATCTGATAA  
TGTTGCTTGAACCTCCTGAACCAGTGCTGCATGCTCTGCTTCTTCATATGTTTGTCCCTTA  
GATTTGACCAAAAACAATAACTGATAATGTAATACAGATTCCCCAGCTCCCTGTGAGCTG  
GTTGAGCCCAGGAAGTCTGTACCTGCCCCG

Sequence 3201

CCGGGCAGGTACCTGGATAATGGTGACTGAATGATTGATGGAAGTGAATTTTGTCTTCC  
TTTTTCTTTCTCCACTGGTGGCCCTATGTTCTATTAAGAGAATCTTCCAGCCAGGCGT  
GGTGGCACACGCCTGTAATCCCAGACTTTGGGAGACTGAGGCAGGCAGATCACGAGGTCA  
GGAGATTGAGACCATCTTGGCTAACACGGTGAAACCCCTCTCTACTAGAAATACAAAAA  
ATTAGCCAGGTGTGGTGGCACGCGCCTGTGGTCCCAGCTACTCGGGAGGCTGAGGCAGGA  
GAATCGCTTGGGCCGAGGAGGCGGAGGTTGCAGTGAGCCGAGATCCCGCCACTGCACTCC  
AGCCTGGGTGACAGAGCAGGACTCTGTCTCAAAAAAAAAAAAAATCTTTCTGCCTGTTTTT  
TGAAATAGCCGCAGGAGTGAGGCAATCTCANCTCCTGCTCACACATCTTTTTGTAGAATT  
TCCATCACAAAGAATGNTATTAGAATCTCTACTCTTGGCCCAAAGNGTCTGNTNGCTTT  
TCTNCCAATCANGA

Sequence 3202

Table 1

CCGGGCAGGTACTCTGCGTTGTTACCACTGCTTCCCGGGACTCTGCGTTGTTACCACTGC  
TTCCCGGGACTCTGCGTTGTTACCACTGCTTCCCGGGACTCTGCGTTGTTACCACTGCTT  
CCCGGGACTCTGCGTTGTCACCACTGCTTCCCGGGACTCTGCGTTGTTACCACTGCTTCC  
CGGGACTCTGCGTTGTTACCACTGCTTCCCGGGACTCTGCGTTGTACCT

Sequence 3203

CCGGGCAGGTACCTTGAGTAACATTGGGAAGGACCACTCATTGAATGAACCATCAATCAA  
ATGATACATACTGCATCCTTCCAGAAAACATCTCAAAGCACTTTGCAGATGTTAACATTA  
AAGTTAAACTGAGTGTAAGGGAGCCTTACAAAATAGGCCAGCTTGAATGCCTTATCCAAA  
AATGTAGAACTGCTTCAAGGCAGGTGTCAGTGTTTTAAAGAAATTGAAGCATCTTGGGT  
GAAAGAAAAATAAGAAATCTCTATGGATGTAAAGATCATTCCCAGTTCAAAGCTAANG  
ATGGGCAGCANGGTCCGNGTCC

Sequence 3204

CCGGGCAGGTACGCGGGGGGGCAATAGTGAATGAATGGGACCATCTGCGTGGGTCCCTAC  
ACGAGATGCTTGGAGGGGCTGGAGGTGGTGAAGGCTGCAGGAATGGCCTAAGGTTTGGAG  
AAT

Sequence 3205

CCGGGCAGGTACCAGAGACTCCTATTTATTTATACCAGTAAGGGCCCTCCCACTGCCTTT  
GTCTCCAGTAGGTGAGCTGCATCATCAGCTTTAAAGCCCCCAAATATTGCTGAGCTTGC  
TTTAAAAAATTCTCTTGCAAACCTTATAAATTTGTTTCAGAGCACTATAATAAAATAT  
TTCTTGCAAACATGGACTATAAGTGCCAGAGACACTGGAGAAATCTGAGGGTGGGGAGAA  
AGGATAATCTATCAGCTTGAAGCTCCAAAGCACTGTCTTTAGTAGCGCTATTGGTGTATG  
GTGGTTTTGAGTGCTTCTCTCAGTGCAGGGTGAGCCAGGTTTCTCAGTGGCATTAGATAT  
ATACTCCATGACATTGGGACTCCCCCGCGTACCTN

Sequence 3206

AGGTACAAGGCATTTTGTAACTGTAACCTCCCACTTAATCAACAAAAACAAAAACACT  
CATTTCTGAACATTGAGTGCATTGATTAATCTTAATTACACCACAAAGGATTTTTC  
AATGGGTGATTTTGCGGGAGTGGGGTAACAGTTTCGAAAGCAACATTGTCAGAAACATAG  
TTGATTTTAAAGGTTCTTCTGGTGACTTTGACTTCTGCTTTTTTAGAAGACCTTACACA  
GAGTTGTATTTATTTCTCCCGGAATATTTCAAGCAATTCAGAGTGAAAGGGTATACATTC  
CAATTTGCGTATGAGATAAAATTTAGTTACATTGAGAAGCTATTTTCTTTAGTTACAGGG  
AAAAAATTGTAGGGCTTTTGAAGCCTCTTTGATTTCTAATAGGAGGAATCCCTGAGCAC  
TGGTCCAAACAGAAATCATCTCTTCTTCAATTGCTGTATTTCCCTCAAGCTCTTAGCAAAG  
TGCATGGCACGTGAAAGCCCGGAGAAGCTGTTGGTTGAAAGAATGGATGGTGGTGGGCAG  
GAAGCATCAGGGACATGGTTTGCTTCAGTCTATTGGCTGGGANAAAGGCCATTAGGAAG  
G

Sequence 3207

CCGGGCAGGTACTTGAATGCTGTGTGGAGTCCCTTTTCTACTTTTGTTCCTGAGAAAGA  
GAGATTCACAAACTTCCACATTCTTCCAGTGGCATCTAAGGATCCCTTCTAAATGGCC  
TTTCTCCAGCCAAATAGACTGAAGCAAACCATGTCCCTGATGCTTCTGCCCACCACCAT  
CCATTCTTCAAACAACAGCTTCTCCGGGCTTTCACGTGCCATGCACTTTGCTAAGAGCT  
TGAGGGAAATACAGCAATGAAGAAGAGATGATTTCTGTTTGGACCAGTGCTCAGGGATTC  
CTCCTATTAG/AATCAAAGAGGCTTCCAAAAGCCCTACAATTTTTTCCCTGTAACATAAG  
AAAATAGCTTCTCAATGTAACATAAATTTATCTCATACGCAAATTGGAATGTATACCCTT  
TCACTCTGAATTGCTTGAAATATTCCAGGAGAAATAAATACAACCTCTGTGTAAGGTCTTC  
TAAAAAGCAGAAGTCAAAGTCACCAGAAAGAACCTTTAAATCAACTATGTTTCTGACA  
ATGTTTGCTTTGAAACTGTTACCCCACTCCCGCAAAATCACCATTGAAAAATA

Sequence 3208

CCGGGCAGGTACGCGGGATTTTATACAATTAATGATATTCTCAATAGTAATCTTTGTGT  
GTGTATATATAGAAATAAATTCTAAATGTAAGTTAATATATTTATTATTTTCTAAAC

Table 1

ATATATAAATATATATATGCACACAGGCTATTTAATTTTATTAGATGATGCTATTTTAAT  
TCAGAAAAAATGACATTTATATTTTGATTTAGGTTAGTATAAGCCCTTAGAGGTGTTTT  
GACAACCTCTCTTAATTTNGNGGTTTTACTGTTTATTTNGATTTTATATAANCTAAAATA  
CCATTGGTTTTTN

Sequence 3209

CCGGGCAGGTACCTAGCACCAAAACGTGTTTTGCCACATTATGAGGAGAAATTAAGACAC  
ATGCAAATGGCCCAGAGTTTGGTGGTTTGGCAGTCACAAGGAGGAAAGAAATGTGTGACT  
CCAATAAGAGTCCCTCTATAGTCATTTGGTTCCCTCGGCCAGAAAGACAAAGGGGAGTT  
TATTCAGAGTGACATAAAAGAAGGGTCGCACAAGCAAATCAGTGACGGGGCAAAGCATTG  
ATGGTTTGAAGGAAAACATGCATTATCTTTTCTTAACGGTGTTCAATGAATTCCTTTAT  
TATTCATTACATTGGCCAACCAGCCTCTAAGGACTTTGGGCAGCCCAATGGAAGGCTCTC  
AAAGGCCCTTTGAGTTTAGCTTTGGGCTTACGATGGTTTTAATTAGCCACAGGGAGAAAA  
AAAGCCATCCTGATGTGGGACTCCTGAAGTGCCTCTACTGAAAGCCAAATGGAGAACTG  
AGGAATGTCATCCTCTCCACCCAGTCATGTACCT

Sequence 3210

CCGGGCAGGTACGCGGGTCATCATCATAGTGAGCCCAGAGAGCCACTGCCAGCAGCATG  
CTCACACCACCTACCTAGTGTAGGTAATAGGTCTACGCTAGGACCCCGTGCTGGGCTCT  
CAGCCCATCATGAGATTTTGGTGGATTTAATGGCAGGTAGGAACCTATTTATAGTGGACT  
GATAATTGCTTTATAATTCCTTGGTAATGACAGCTCAGGGAAGGTTTCACAAGGTCATGA  
TCAGGAGACTTGAATTGTTACTGGATGTAGGAATTGTTTCACTGCTCTTAACCTGCTCAA  
ACTGGGGCAGGTTCCAGGAACCTGAACATAAAATATCTATTTAAGCCTNTCTCTTTCT  
CTCCTCCCCAACCTTTTTCTGAAAGCCTTGATTTCTGCAGACAGAACTATGGTTTTTGGC  
ATGTTGGGTCAAGACGTGTTTCTATAGGAAATGCTTGCACGTGGCACTTGGCTTGGTGAG  
TCAAGCTTCTGAGCTTCANACCGTTTGTCTGTCATNTGCTCTGCCCA

Sequence 3211

CCGGGCAGGTACAAGGCCACTGATTATCTAGACCTGGCTTTCTTCTTCACTCTCATCATC  
CATCCCCACCCACATTCTCTCTCCCCATCAGGTTTGTGCAAATGTTGTTTGGGATACTC  
TTCTCTCTTTGGAATCCCTCCTGTTTGGAACTCTTCTCTTCTTGCCCTTGGCATCTCC  
TCACCACGCACGTTCTGCTAATTCCTAAACTGCTTATAGATTGNGGGCTTAAGCTTTGA  
CTTTTTTCAAGGATGCCTCTGCTAACCCCTAAATTCANGGTAGGTGCTCCTCTTAA  
GGTGCTCCATAGTTCCCTGTACCT

Sequence 3212

AGGTACACACTGAGGACCTTTCATCCAGCACGTGTGGAGGCTCCTCGAGGGGACTCGGAG  
TGAAGACAGACTTGGTCTCTGCCCCCTCGGGTCTTACAGTCAAGCTCCAGTTGAAGTGTG  
GTCATTACTACAGTAAATGAAGCACAACCCATTATTATCTCTGCCTCAGGGGATCAAGAG  
GAAGTTTCTAGAGTAGGAGACATTTCAATCAGGGCTTGGGGAGCCTGCCAAAGGGAATGA  
GGGCACGTCCACATGAAGCAAAGGCATCTGAGTTCATGGCCCCGCTGGGGATTGGCAGG  
CATGAGTTGCAGCTGCAGGGCAATAAGCGTAGGGGAGTGAGTGAGAAACCCAGGTGGGG

Sequence 3213

AGGTACACACAGTCAAAAGTTTTCCGTGACTGTGAAATCCAGTGCAATCTGCTTCCCAGC  
AGATGAGGAGCCTGACGTGGTTATGTCTGGATTTAGTCCAAGAACAGAGCAAAGCTTTAA  
TTGTCAAGAGACCCAGGCCTCATTCTCCACTTAGGAGAGTTTGCTAGGGCAGGTACCTGC  
CCG

Sequence 3214

CCGGGCAGGTACGCGGGACAGCAGCCAGCCGGGACAGCCAAGTGGTTCGGAGAGAAATTG  
CTAAAGCCCTTAGCAAAAGCTTTACGATGCACTCACTCACCATTGAGATGGAATCTCCAG  
TTGACCAGGACCCCGACTGCCTTTTCTGTGAAGACCCCTGTGACTAGCTCAGTCACACCG  
TCAGTTTCCCAAATTTGACAGGCCACCTTCAAACATGCTGCTATGCAGTTTCTGCATCAT

0



AGAAAATAAGGAACCAAAGGAAGAAATTCATGTCATGGTGCAATGCATATTTTATCTATT  
TATTTAGTTGCATTCACCATGAAGGAAGAGGCACTGAGATCCATCAATCAATTGGATTAT

Table 1

GGGGGACCTCCCACTGTCCTCTCTATGTGTTCTATTTGTTCTGACTGTTAGTACCTGC  
Sequence 3221  
TTGAGACTGCCNTGGAAGACTNGAANGGTACGTCAGCTGAGACTTCTGGAGAGACCATTG  
AAGGCTTCTGGCTCTTGACAAAGATAGACCACTGGAACAATGAGAAGGAGAGAATTCTAC  
TGGTCACAGACAAGACTCTCTTGATCTGCAAATACGACTTCNTCATGCTGAGTTGTGTGC  
AGCTTGCAACGGATTCTNTGAGCGCTGTCTATCGCATCTGCCTGGGCAAGTTTCACCTT  
CCCTGGGAATGTCCCTGGACAAGAGACANGGGNAGAAGGCCTTAGGATCTACTGGGGGAA  
GTCCCGGAGGAGCAAGTCTCTTCTGTCCCGCTG

Sequence 3222  
ANGTACGCGGGAGGATGGACAGAGTAAGCACACGTGTTANATAGAAAAGATAGAAAAGAA  
TTGCTGTTTTCTGATAAAAGACTAAATNATGAGAAAACACTTAACTACCGAACACCTGA  
AAACACTGAATAANATTTGAAGCCATCTTTTTTACAAAAAATANGCCTGTNNGANCTTC  
CAAGGGGAAAAAGNAAAAAGGGGTAAANTGTTTNCAANAACACAAAAAATNGGNCTCCCN  
TGTTGCCAAGTCNNCCNCANCAACTTCTACNTTCTACTACTTTAANTTNGGGTNANAAGG  
CATCCAAATAAAAAACCCCTTAA

Sequence 3223  
CCGGGCAGGTACAGCATGTATGGCCATAAAACCACTCATCACACTACTGAAAGACCCCTCT  
GCCTCACTCTATGAACAGCACATGGTGAGCCCCATGGTTCATGTCTATAGAAGTCCATCC  
TTTGGTCCAAAGCATCTGGAAGAGGAAGAAGAGAGTNAATGAGAAAAAGAANGGAANGTG  
ATTGCAAAAACCATCTTNCCAAAAGAAAAGTTCTTTTTTTGTGAACCAGGGGAAAAAATT  
CATTTACACCCCAACCCCANCAAGGGGGTCCAAATATNATTGNAAAAAATTAACAAAA  
AACCTCATCTGGAAACCNCANATTNCAANCCAGNAAAAATTTTTTTAANTCCCTTT  
TNCTCAAAAGGNAATTGGCCCCAAGGCCTTCCAATTTTGGGTNAACCCANGTAAANACC  
ANTTTTTTTTTAAAGCAAAAAAANAANGTAAAAAAGGGGGGNAAAACCCCTTTTTCTA  
AGTGCCCAANACNTTNGGGGGGAAAAATTTCCAACCNAAAGGGAAAAATTAANCCCTTAA  
AAAGGGGNAAAAAAACCATTTTTTGGCCTTCAAAGGNCNTTTCCCAAGGCCCCC  
TTGGAATTAATTTGGGAAGGGGGCAACCAAATTTAATTTCC

Sequence 3224  
AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTTGGAATGCTGTGT  
GGAGTCTTTTTCTACTTTTGTTCTGAGAAAGAGAGATTCAAACTTCCCACATTCTT  
CCAGTGGCATCTAAGGATCCCTTCTAAATGGCCTTTCTCCCAGCCAATAGACTGAAGCA  
AACCATGTCCCTGATGCTTCTGCCCACCACCATCCATTCTTCAACCAACAGCTTCTCC  
GGGCTTTCAGTGCCATGCACTTTGCTAAGAGCTTGAGGGAAATACAGCAATGAAGAAGA  
GATGATTTCTGTTTGGACCAGNGCTCAGGGATTCTCCTATTAGAAATCAAAGAGGCTTC  
CAAAAGCCCTACAATTTTTTCCCTGTAACATAAGAAAAATAGCTTCTCAATGTAACATAA  
TTTTATTCTCATACCGCAAAATTGGAATGTATACCCCTTC

Sequence 3225  
CCGCGGTGGCGGCCGAGGTACAAGATGCACACAGATGGGAGGAGCTGCCTTGAGCGAGAG  
GACACTGTCCTGGAGGTGACAGAGAGCAACACCACATCAGTGGTGGATGGGGATAAACGG  
GTGAAACGGCGGCTGCTCATGGAAACGTGTGCTGTCAACAATGGAGGCTGTGACCCNCC  
CTGTAAGGATACTTCNACAGGTGTCCACTGCAGTTGTCCTGTTGGATTCACTCTCCAGTT  
GGATGGGAAGACATGTAAAGATATTGATGAGTGCCAGACCCGCAATGGAGGTTGTGATCA  
TTTCTGCAAAACATCGTGGGCCAGTTTTTGACTGNCGGCTGCAAGAAAAGGGATTTAAA  
ATTATTAACANGATGAGTAAGTCTTTGCCAAGGATGTTGGGATGAGNTGCTCTTTGGGA

Sequence 3226  
CGCCCGGGCAGGTACTACGCTCTTGATACGAAAAATNTTATCACGTGCCAGCCTCTCT  
CACAGTCAGAAATAACCATGTGACACAGTTCTAGCCAACGATAACATGGATCAGCTACAT  
GAAAGAGGGATGATGGTATTGGAAGCTTTTGTCTTTAATTAGGGGAAANTNAAAAA

Table 1

AATTACAAAGTTTTTCNATTTTTTTGAATTATTGAAACCAAGGGGNGAATTGGNGGAAA  
 AAATTAACCTTGGGGTTTTAGNNAANGGAAGGCCNGTTGGGGNTATCCCCCTTTGGGGN  
 CAAAATAGGNGCCTTANCNCNCCCNCTTTGANAAGTCNCCTTGGGGNAAAAATCCCCT  
 CAAGCTAAACCNCCTTTTTAAAAATTGGGAATTAAGGAAAGGGTCCAATATCCCCCTT  
 GGTTTTTTTTTTGGCCAANCTTTTGGGANAAAAAGGTTATGGNCCCCTTTTTNTTGGGNC  
 TCCNTTCCNCCCAATTGGNCCCCCNNTCCCCCAANTNCCCCTTNGGTTAACNCCCTACG  
 NGGCNCCCGGCTTTCNTTAAGGAAAACCTTTAAGGGNTGGGGGGAATTCNCCNCCCC  
 GGGGGGGCCTTTNGCCAAAGGGGTAAAAATTTCTGGAAATNAATTCCAAAAGGGCCCTT  
 TTTATTNCCGNAATTTACCCCCGGGTGCTGNNAACCTCCTCCGNGAAGNGGGGGGG

Sequence 3227

CCGGGCAGGTACAAGCCCTGGACCTGGCCCATTTCTCATGTCCCCTTCCCAAGCCTCCAA  
 GCCACATGGGCACTTGCCAAGATCAGAGCTCCAGGGGCTCCAGGGACGGGGTTTTTTCAG  
 TCCTTTGGGACCATGATCCACAGTAGAGANATTGATCCTAANTTTGNANNAACACCNAG  
 GGAANGCCNAACCACCAATGGTNAATGGNAAACCAAGCCCAAANGNCAACTCCCCAGAN  
 CGNANTTCANTTCNNTAATATGGGCCAAANCNAAGTTGCAANAAANCAACCCACAAATG  
 NGCCGGAANTGCCANTCCGTTANAGTTGGNCAAAACCAAGGGCCNCCAAAAAACCNAA  
 NNCTNCAAAGNTTTGGNAATTCCAAATNNTCTTAAANTNGGTCCAAAGACCAAAGGCCT  
 CAATANATCCATCTCCCCAAAGTNCGGGAATTTCAATTTNTTTAAATTTGGNCCAAAA  
 CAAAGGTCNNCAAAAAAACCAACNCCNCAAGNTCNGGAATTTCCAATTCNTTAAAA  
 TTGGGCCNAAANCCAANGACCGCCANAAAAACCAANCNCCTCNAAGGTGGGGAAATTC  
 AT

Sequence 3228

TTGGAGNTCCCCGCGGTGGCGGCCGAGGTACCCAATGAAGTGAATGTGCCCCCACAACAT  
 TTAACAGTNATNTCAGCAGGAAAGGGAAAACGACTGCGAAAATGTAAACAATTCCTTGCT  
 TCAGCTACTTGTTAACTATGGCTGCAGCTGTCTGAGCCAGCTGTCCAGTGGTAGCCTGAT  
 TCCCAGCGNGCATNTGGGAAGCANNTGNGAAGAAATGCCNATAAAGAATNNNNAAAGGAC  
 CANATATGCTAGATGGAAACCAACTAACCATGCTAAGGCTTCCACCTCCATATGTGTGA  
 GGGAAAGCCCTAACTCTGCCTCCTGGGAATGCCAGTGTCTCCTTCTTAGTCAGTTAATTT  
 TTACAACCTTTCTTGTTGCTTCCAGNTCATNCTGTCTTCTTAANCTCTTTGCTTGTGTT  
 TCCCAAAAACCTTTATTTTTTTTTTCATAAAATCATTAAATATTGCTTTTCCCACTT

Sequence 3229

TNAAATTGNTTTATTCCCCCTTACCANANTTTTCCCCANAANTCATTACCGGAAGTCNC  
 GGGNGNAGGCCANTTANAAANNTTGTAAANAAGNCCCTTGGGGGGGTNGCCCCCTANAT  
 TGGAAGATGGNAGGCCTTANANCTTCCCACCAATTTTANAATTTTGGCCNGNTTTTGN  
 CNGGCCTTTNACCTTGGNCNCCCCNGGCCTTTTTTANCCCAAGATTTCCNGTGCGGNA  
 AAAAAACCCCTNNGTTTCCNGGTTGGNCCCCAACGNCCCTTNGCCCAATTTTAAAAAT  
 TNGTAAAAAATTTNNGGNGNCCCCAAAAACCGGCCTGTCCNNGGNNNTGGTAAGGAAA  
 GGGGGCCCGGNTNNTTTTGGCCCCGGTTAATTNTTNGGGGGCCCCGGCCNTTCTTTT  
 TTCCCCGGCC

Sequence 3230

GCTCCCCGCGGTGGCTCGCCCGGGCAGGTACGCGGGGTGGGGGGAAAATGTGTATGTGAG  
 AATGATAAAATACATTGTATGCATATATGCACTGGGTCACTGNAATATGTATTTCTTACT  
 GTGGATCATGGCCAACAGAGTTTGAAAACCTCCATTCTTTGAGGTAGAAAAGCTGACTGG  
 ANTATCTACCCTGGGTGGTTGGAAGCTGCCAAGGGCACCCAACCTGGTCAACAAATTAGT  
 GTGCTCAGCCAGAGGCAGTCTGGATGAATTCAGGCTGCAAAGTGCCCTGTGACCTGGCC  
 CTTGGGAAGCCACGCTCTGATGAAGGTTTGAGATCTCCCCGCAATCCAGGGCCCCAAGCC  
 ATGAATGAAAGGTGTTAGGCATTTTCAAGGGATGCCGGCTAGGACCGTGCCTGCTTGTCT  
 TCAAGGGTTT

Sequence 3231

Table 1

ATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAGAAGAATTTGAAAAACACAG  
 CTGCTGAAGAACATGTTGCTCAAGGAGATGCCACTCTTGAACATTCCACAAATTTAGACT  
 CCTCACCATCCTTAAGTTCAGTGACTGTTGTGCCTCTGAGGGAATCGTATGATCCAGATG  
 TAATTCCTNTGGTTGGCCAAAAGAAGTGTTCCTTNGGAAGGTNGCACAGCCAGCACCTCCCC  
 TGCGGATCACTCTGCTCTCCCTAACCAAAGTCTGACTGTTAGGGAATCAGAAGTCCTTAA  
 GACAAGTGACAGCAAAGAAGGTGGNGAAGGTTTCACAGTAGATACACCAGCAAAGCAAG  
 CATCACTAGCAAAGGACACATTCCAGAAGCTCACCAGGCTACTTTATTGGATGGTAAAC  
 AAGGGAAAGGTAATT

Sequence 3232

GCTCCCCGCGGTGGCGGCCGAGGTACCCTGTTACTGAGGCAATACCTTTCTGGGTAATTT  
 TCTCAATCCTCTGGGTATATTGAGGTTGCCTACTGTGGCTGATGAGGAGGCCAGCTATTA  
 TTTCTAGCCTTCTCTGTCCATTGAGCATTGTTCTATCTGCTTCTTTTCAGTAGTTATTTG  
 CCCTGTNAGTTTCCTCACATGTGTGCACTGATCAATACTTAAGCCTGAAACTGTCTGCAG  
 CACTCCAGATCTTTATTTCTCTTTACTTTGCAACTTGTTCTCTCTGTAGTTCTACTCTC  
 TTCGCTCTCTCTCTCTTCCCTCAGCACAAACCCTCTCCATCTCTACACTTCCTCTCACCTC  
 TGCCCTGTGAATTCTAATTGCATTGCTGTCCCAAATCCTCTTAACTCATTGAGACCAC  
 TGGAGCTCTGGATTTTCTCTCTGAGCTGCAGCC

Sequence 3233

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAATATANGGCAGACACG  
 TTTGCCTTCAGAAATTCAGAAATGCAGCTTTTGAGGGAGGTCAGCATCATTGGTCTCAGC  
 TACTAGAGTTGAAGATGATTGAGCCACTTTTATTCCAGCCACTCCATTCTAGCATACAC  
 TACAGAGAAGTGATATTTAAAGAGGCCATTTTCTGCAGGGATGTTTATAAATAGTTC  
 CTGGCAAAGGAGGTTGCCGTATAGGGTCTACAAGTAACCTCCCCGCGTACCTGCCCG

Sequence 3234

CCGCGGTGGCGGCCGAGGTACCCTGTTACTGAGGCAATACCTTTCTGGGTAATTTTCTCA  
 ATCCTCTGGGTATATTGAGGTTGCCTACTGTGGCTGATGAGGAGGCCAGCTATTATTTCT  
 AGCCTTCTCTGTCCATTGAGCATTGTTCTATCTGCTTCTTTTCAGTAGTTATTTGCCCTG  
 GTANGTTCCCTCACATGTGTGCACTGATCAATACTTAAGCCTGAAACTGTCTGCAGCACTC  
 CAGATCTTTATTTCTCTTTACTTTGCAACTTGTTCTCTCTGTAGTTCTACTCTCTTCGC  
 TCTCTCTCTCTTCCCTCAGCACAAACCCTCTCCATCTCTACACTTCCTCTCACCTCTGCCC  
 TGTGAATTCATTTGCAATTTACTGCCCCCAATCCTCTTAACTCATTGAG

Sequence 3235

ATACTCAAAAAACATATATTTGCGATGTGCCAGGAAAAGGTAAGGAAAAGGGAACCTTCAT  
 GTGCCAGCCCCGTGTGCTGAGCCCTGGAGCTGTAGAGATGAGTGAGGTGGATTTTGTCT  
 GTAAAGAGTTTGCCGATGGGACCAAGTCTGTCTCTCTCTTCTGCTGACCGAGGAC  
 AAGCACTTNTTAGTAACCCTGTGAATACCGATGCATCCCGTCAGTCAGCAGCTGTTGCG  
 GAACACCAGCTGCAGGCCAGGCA

Sequence 3236

NAACCGTA AAAAAGGGCCCGCGTTTGCTTGGCGTTNTTTNCATAAGGCTCCCCGCCCCC  
 TTGAACCGAGNCATCACCANNAATCCGTACCGCTTCAAGNTCAANNAGGGTTGGCTNAA  
 AACCCCGGACAGGGAACCTTAATATAAGNATANCCCAAGGGNCGGTTTTCCCCCCCCCT  
 GGGGAAAGCCCTTNNCCCTTCGGTTGGCCGCTTCCTTCNCTTGTNTNTCCCCGGAACCC  
 CCTTGGCTCCGGCCTTTACCCCGG

Sequence 3237

CGAGGTACCCAATGAAGTGAATGTCCCCCACAACTTAACAGTCACATCAGCAGGAAA  
 GGGAAAACGACTGCTGAAAATGTAAACAATTCCTTGCTTCAGCTACTTGTTAACTATTGN  
 GCTGCAGCTGTCTAGAGCCACGCTGTCCACGTCGNGTAAGCCTGGATTCCCAAGCCGTTG  
 CCATCTTGGGGAAAGCCANGTGGGGGAAAGGAAATTGCCANATTAAAGGAAATAAATG  
 TAAAATGGGGACCCCAAAATTAATNGCTTAAGGTGGGGAAAAACCAACATAAACCCAT

Table 1

TGGCCTTAAAAGGGGCTTTTCCACCCCTTCCCATTTGTTGTNNGGGGAGGGGGGAA  
AAAAGGCCCCCTTAACCTTCTTGGCCCTTCCCTTGGGGGGAAATGGCCCCAAGGTGGGTG  
CTTCCCCTTTTCNTTTAAGGNTCCAAGTTTTTAAAATTTTNTAACCCAAACCCCTTTTTT  
CCCCCTTTGNTTTGGGCNTTTCNCCAANTTCCAATTNCCCCTTGGTTCCTTTTCCTTTTA  
AAAGGTTNCTTTTGGCCTTTGGTGGGTTTTTCCCCANAAAAAACCCCTTTTAATTTTTT  
TTTTNTTTTCCAATTNAAATTTTCCAATTTTAATTAATTTTG

Sequence 3238

CGAGGTACATNGTGGCCTTTCAGCTAGTGCAGAGGATGGAAACCAGAGTGGGCTGATGAT  
TGGATGCCAGGCCTGAGCCAGGTTGAGTCCTGTTCTCATTATACTGTAAAGTGAGCGTGC  
TNCAAGCCTCCCTGATTCTTATCACTCCCAGNCCCTGCAGGGGTCCCTGAGAAGGTTAAT  
CTNTGCATTTAAGCNCCTCNTGCTGTTTTCCCTCTGTNAAGCCATTACTACCACTNTT  
GCAGCTGNAGNTGTCTAAGTATTAACCTTANTATTTCCCATGTGTANCATTCAACATGN  
GTTTTNANTGGACCTACCNATTAANAGTANAANTTTTTNGCTGGANAACCAACAATAA  
AGNGGNGNAATTTGGNTNCAATAACCTTTTNAACCTTTNTTTNGNTNCCCCTTTTCTA  
CTCCCAGNGGTTGGGNCCCCGNCCAATNGNCCCTCTTCTNAGNGNGCCCAAGAACTCCTT  
NCCNCNAAANTTATATTCTAAAGNNCTTTTGGCCTTTNNAATNGNCCTCCCCNNGGG  
GCCGCTTNTTTGGCTCCTTTACNTTTCAAAAAAG

Sequence 3239

CTATAGGGCGAATTGGGAAGCTCTCACCGCGGTGGCCCCGGGCCCGCCGGGCCAGGGTA  
CCNTCCTTCCCTANTGCATTCCCTGCTGNTGGGGGAAAGGTTGTGGGAATAACCTCACCA  
GAATGAATGGCCAACAGGGGGCAATTGGTTATTTTCAAGGGGCCACCCCAACCAAGTGGC  
CAAGCCAAGTTGGAAAATTGGAAAATTGGAAAAGGTGGAAAAANTGGGTTATNTTTAAT  
TCCCCATTTTCCCTTGGGGAAAAAGGGGTTNCCAAGGGGGGTTNTTNGGGGCTTCC  
TNNGCNAAGGGGGNCCCCAAAGAAAANNAACCCAAGNCCTTTTTTAANGCCTTTGGTTG  
GCCCCNTTTTAAANCCCCCAAGNTTCCCTTGNGGAAGNAAAAAGGCCCAAGCCAATG  
GNCCCCGGTTAAATTTCCAACCCGGGGGGGGGNAAGGGGAAAAAACCCCCCANTTCTT  
TTTTTTTTTAAAAAGGGGGGGGCCNTNCNCCTTTTNGGCCTTTCCAAAGGGGTTNGGGGGT  
TTGGAACCCAAAAGGGGGTTGGAAGGGGGTTGGGGGGTTCCAAATCTNTAATTNGNC  
CCTTGGGTTNCNTTTTTAATTTCAAGGNTTACTTTTNTTGGGNTTCCCTTTAAAAA  
ATNAACCTTTGGGTGGGGCCCTTTCTTTGGAAACCAATTTTGGGAATTGGGGCCTTNA  
AAANTAAATNTTTCCCATTTANTNTTAAATTTCCAAGGGGGGCCNTTTCTTTNGGN  
TGGGGGTTGGNTTTTTTAANGGGGCCCCNTNCCTTAAAAATTTT

Sequence 3240

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAGAGCA  
CCAGGAAGTTACTTAAAAACATCTGCAGGAGGACATTGGTAGCCTTTACTAATACAGCAG  
TCTCTTTTTGAGTAGTTTATTAATTGTTAGAACACAATAGCACTTTTGAATAAAAGAA  
ACTAGCATCCCAGATTGAAAGACTTTACTTGCCAGNTAAGCACATGGGCTGCTGTAGAA  
GAAAGCTAACTTGGCTGGGTGCAGTGGCTCATGCCTGTAATCCCAACACTTTGGGCGGCC  
GAGACGGGTGGATCACCTGAGGTCANCAAGTTCGAGACTAGCCTAGCCAACATGGCAAAAT  
CCCATCTCTACTAAAAATACAAGCAATTAGCCGAGCCATGGTGTACCCTGCTTGTAAAT  
CCTAGCTACTGGG

Sequence 3241

CGGGCAGGTACTAGCTGTTTTTGCAGCTTTTAATAATAACACCTNCTAGTTACTGAGTGT  
CATCATCACCAATGTCATGATTGCCACGATTTATTGAGTGCCTACTACATGCAGGCCCA  
GGTCAGTGCTTTACACTCTTAAGTGTGATGTTGACAACAGCTCTGAATGACAGGAGCTCT  
GTTCAAGTGTTTTACAAGTGAAGAACTAAAGACACTAATAATTTTTAAAAATATATCCAC  
AGTTCTATGATTAGTAAGTAAGGGAGCTAGTCCT

Sequence 3242

AGGTACGCTTCATTTCTCCAGCACCTTGAAGACAGCTTGGCATAGAAATAATTGTTGAA

Table 1

TCAACATGTGCATAAATAAATGACTGATGCAATGGGCAAACCCCTTTGCAGTGCTCTTCCC  
 TGCCTTACCTGTATACCATAACCTNCACTGTGGCAGGGACTGTGGTGACCTCACTTGCCA  
 TGGCCTCCCAGCTTATTCTTAGTGTCTGATACACAGTTGGATGATTAATAAATATTTGCC  
 ATCTCAGTGAGTGTATGGACATGGTGAGTCCTCTGCCAATCCTCCAAATCCATGCCTGC  
 CACACCTCCACATTGCAAACCTGTCTCTCCACACTGCAGCAAGAGCCAGGCAGGGTTCTA  
 CCAIGCAAATGGACCTTCATGTCTCTCCACNGCTACCCCTAANGCTTCAGAATCTTCTT  
 TAGATGGTGGGCCCCACAAAATAGCTTTAGCTTTAGTTACAGACTCACAGATTTTACTT  
 ATAATCTTAGGGCATTACAGGTCTCTTGAAGTCCATGAA

Sequence 3243

AGGTACCATCTCAAAGAACACCTGTATGTATGCAACGTATTTAAGCAGAAAGAATGGGCT  
 CAAGATAACCCCTTGATTCTAGTTCCCTACAGCATACATGTGAATGGGAAACATTCATAAG  
 TTCCTATTTGCCAAGGGCATGTAAATGTGATAAAGCAGATCCGAAGACACATGGGAGTGA  
 GACTAGGAAAGTATTAAGAACATGGGCCCTTGACCGGGCGCAGTGGCTTACGCCTGTAATC  
 CTACCACTTTGGGAGGCCGAGGCTGGTGGATCACAAGGTCAAGAGTTCGAGACTAGCCTA  
 GCTAAGATGGTAAACCCCGTTTCTAAAAATTAGCTGGGCACAGTGGCGGGCACCTGTAA  
 TCCCAGCTACTTGGGAGGCTGGGGTCACTTGAACCCTG

Sequence 3244

GGGGCCATTGAGACTGCCATGGAAGACTTGAAAGGTACGCTAGCTGAGACTTCTGGAGAG  
 ACCATTCAAGGCTTCTGGCTCTTGACAAAGATAGACCACTGGAACAATGAGAAGGAGAGA  
 ATTCTACTGGTCACAGACAAGACTCTCTTGATCTGCAAATACGACTTCATCATGCTGAGT  
 TGTGTGCAGCTGCAGCGGATTCCTCTGAGCGCTGTCTATCGCATCTGCCTGGGCAAGTTC  
 ACCTTCCCTGGGATGTCCCTGGACAAGANACAAGGAGAAGGCCCTTAGGATCTACTGGGGG  
 AGTCCGGAGGAGCAGTCTCTTCTGTCCCGCTGGAACCCATGGTCCACTGAAGTTCCTTAT  
 GCTACTTTCACTGAGCATCCTATGAAATACACCAGTGAGAAATTCCTTGAAATTTGCAAG  
 TTGTCTGGGTTNATGTCTAAGCTTGTTCAGCTATCCANAATGCCACAAGAATTCAACT  
 GGATCTGGAAGAGGAAAGAACTGATGGTGTTAACTGAACCCATTTTGATTGAGACCTAC  
 ACAGGGCTGATGTCATTCAT

Sequence 3245

CCGGGCAGGTACGCAACATGACATTGGCTGGTGTAAAGATCTTACAATTATTTTAAAGT  
 TTCATTGTATTCAATTTGATTATATAGTTTCTTGCCATCACAAACAACTCCTATTCATG  
 TCTAATTCGATACCTGGTGAGTCCACATAAGCATTGGGTCCCACTGATGAGAGCACCA  
 TGGCCAGGTACCCACTTGATCAGGTTCTCTTGCTTTTGTGTGCATCTCATCTTATTG  
 TAGGCATTCAAATGTGGGCTCAGGCAAGCCTTCCAGTGTGATCATTAATTTTATAT  
 TTTATGTGTTAACATGCGCCTCCAATAACTTGCTTCTCTTGCTCACCATGATGATGCATT  
 TTTCTACTTTATGTCTCGCTCATTGATTATGATGAGCTGCTGACTATTTGAACCTGGT  
 ACTTTTACTTGATCACCTCTACGCAGTTTCACTCCATTCAATTCAGTTTCTCTTTTAT  
 CAGTGTCTCTCTCAGTCCCTATAGGCCTAGATGTTCAATTGTGGTTTCAGCATCTATTTG  
 ATCTCCCTCTCGTGTTCATTAGCATTCTTCAATAGTTTCTCAGGGTTATTTCTCATG  
 AATCACCATTGNATACTTCTTAAAC

Sequence 3246

CCGGGCAGGTACGCGGGTGTTCAAGGAATTACAGCATAGATATGAAAGATGTCTGAAAAA  
 TTGGAAATATCAAATAAAAAATTAAGAAGCCTAAACTACATCAGATTAATATGTAGTATA  
 GTCTTTCACATCTGGCCATGATGGAATGGAGCAATGGGATTATATACATTCTCACAGT  
 AAACAGTTTTTCAGATATTGAACAACAAAAAGTAGGCAGTGCTAGCCAGAGATTCTTGGA  
 GCCAAAAACAAAAACAAAAACAAATAAAAAATTGGTAATCTCTATATTGCTCCAGTTTG  
 CTGCTTGGAGAAAGTTCTCAGGCTGCAGCTCAGAGAGGAAAAATCCAGAGCTCAGTGGTC  
 TGAATGAGTTAAAGAGGATTTGGGGCAGCAAATGCAATTAGA

Sequence 3247

ATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTGCCTGTGCGTAGCTGCATTA

Table 1

AACCAAATGATCAAGAATATCAAGATACATCTTCCTGGATCTTCAATCCCACCTTAAAGAT  
TTGGAGAACATATCATTTTATATTTAAACCAATAACATTTTCAGAATACATTTGAATAAT  
TTCTTTTACCTAAAAACAGAGTCTTTAAATAAGTATCATTTTGGAGATGCATTGCCATA  
GGATACATACTGAGGTGTCTTCTCTTCTCTTACCTATTAGAGGCATTTCTGGGCAAGTT  
TGAGGAGCATGGAATTAACAGTCATCAATGCATTGCTGGATTTGAAAATGATTTATATCA  
ATCAGCAGAGGACCTCCACTGGTGATGTCAGCAGGATCTGAGGATGTTGAGGTAGACATG  
CTATGCTTTGAATCTCCAACTTGAA

Sequence 3248

NAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTAACAGTCAGGAACAAATAGAACACA  
TAGAGAGGACAGTGGGAGGTCCCCCTGGCTAAAGCAGAGGGTGTATTGAGAGAAGGAAAC  
CTTTGCCTCAATGGATCGTAGGCCAACTGAGAAGGACCATAACACCTTGCTGAGAAGTTT  
GAATGTGATTCTTGGTGACCACAGCAGGAGGTCTGAAGTCCCTGCTCCTTCANATGCAA  
ACAAGGAGGCTGTCCCATACAGACTATCAGGGAAAAAATGCACTGTTTATCAAAAGATAT  
GAATGTTCTTGACAGGCAAGGCCCTGCTCAAATGAAATGGCAGTGCAGGGAGATGATATT  
CAGTGTGATGCANCTGTGAGTACCTGCCCCG

Sequence 3249

CCGGGCAGGTACTTAGCACATGCCANGAACTGTTCTAAACCCCTTCTGTGCGTTAGCCCA  
TNTAATCCTCATANTAACCTCAGTGCTNTCTCTGATATCCCTGTGTTACAGTTGAGGGAAC  
TGAAGTATANAGAAGGTTGAGCAATGGCATGCAGGGCATAGAGAAGGGTAAGGACGACTG  
TAAACAGGTCAAGAAGTGAAGGTGAGATAATTTACCCTGATTGCACAAGTGGTAAGTAG  
TGGTACCAGATTGAGGCTCAAGTCTTCACTCTCACAGCAGGGTACTTTCTGCAACTTCAG  
TTTCTTATTACCATTTCTGCCACTAGCATGCAGAAGACGCTAGATGATTATTGAATCAGT  
GAGTTTCTCATAGGTAAGATGGAATGATTCTTAGTAGGGTTTTGTGAGAATAAAATTGG  
AAATTGTACATTTCTTTAACATATTTGGGTAGTAATAGCTATTATGATGCTAGTGGATA  
ACACAAGAGTTCAAAGGTGACCAGTTAGATGTGGAGGANGGAAAGAGTTGTGTAAAGAT  
GATGAAGTGTCTAGCCTGATGGTGAAANGACAGTATTAATGGAAATAATTAATTTGGAA

0

Sequence 3250

GCGAGGTACCGTAAGGGGAGTTTTGTTCTACTGCCCATGAGTCTGTGGTCCCACATGTG  
TTGCTTTTGTCCATGTCATCATTTNCACAAGGATACATNTGAATGCTGTATTTATGCCTN  
ATTTNTANATACATGGGGAAGTGAAGTATGTTTTAGCTGAAGGTTCTTACATCAAAAT  
TATGATATTCCTAACACTGCTTCCAGANAAGACCCCAAGATGTTTTGTTTTGAGAC  
AGAGTCTTGTCTGTTGCCAGGCTGGAGTGCAGTGGCATGATCTCGGCTCACTGCAACC  
TCTGCCTCCCAGGTTCAAGCGATTCTCCTGGCTCCCTAGTANCTACAGGTGCATGCGTGG  
CTAATTTTTGATTTTTAGTAGACACGGGGTTTTGCCATGTTGGCCAGGATANGTCTCAA  
A

Sequence 3251

AATTGGAGCTCCCCGCGGTGGCGGCCGAGGTAACCTAGGGTTAGCCCGAGGTCAGG  
AGGGTGGATGCCTTATTATGGGATTAAGTGCCCTTCTAAGAGGGACAGTAGAGGGCTTGT  
CCATGCTCTCTCTCCATGCACAAGAAAGAGCACACAAGTGAGAAGGAAAGAGGCCCTC  
ACCAGAACCTGACCATGCTGGCACCGTGATTGCAAACCTCCAGCCTCCANGATTGTGAGA  
AGATAAATATCTGTGGTTAAGTCACCAAGTCTGTGGTGTGTTTTATGGCAGCACAAAGT  
AACCCAGATGATGCTTTTACCAGTGGGTGGTCCANCTTTCATGGAAGCTGTCAACTCC  
TCAGCCTTGCAAAAAATG

Sequence 3252

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACAGGAGGCAGCTTTT  
TTCTGCTCTCTGTTGACTTCTGAAGCCAGCCTCATGATCGTTTCTCTGCTAGCTTTTGCT  
TCCATCTCATGGACATTTATAGTCTCTTCAAGAATAACAATTTGTCCTTTACGAATTCA  
TTTTCTTTGCGCAGGTCTCTAAGCTTTAAATTAATCTTCATCTGATGCCTTGTCATTC

Table 1

CTCTCATCTGGATCCAAGCAGTCACGCAGTTGAGTCAGAAATTCCTCATGTTTCCTGCAA  
TTCTTTGAAACTTGTTTCTTATTCTCCTCATTTTCTTTGAACTNTTGAATTTTCA  
TTAACTCTACAACCTTCTTCTTTAATTCCTGGNTCTCCTTGATTGCANCGTGAGCTGTG  
ATTTCTGTTCTGATTTTGAAGTGGAAGTGCTGCTGATTCTTCTCTAGCTCCTGAACT  
CTGTCTCTCANAGAGGTAAGGAGAGATGATTTTCTGGCATTGGTTTCCTTGAGCTCTNC  
ATTTCANCTTTCAATTCTTGACAAGAACTTCTTTAGAAAGCATCTTGGATCGGANGNCT  
TGAAACTTAACTGANCCCCATTCAAATTTGGACCAAAGTTGCTGCAAGTTCACCTNGAGC  
ATTTTGAACCACAATTCCCAAAAGGGGGTTAACTGCTCCCGGNGNANGNCGACCTTCCG  
AAAGAAGATCGTNAGGTTNTTGGGGGACANTTGAAGTGAACCAATTCCCCCATTTNNGG  
AACTACTGCCAANCANNCNAANCCCCGGGGNCCCCATTCCCAGGCCAAAGGGGGA

Sequence 3253

TTGGAGCTCCCGCGGTGGCGGCCGAGGTACAAGATGCACACAGATGGGAGGAGCTGCCT  
TGAGCGAGAGGACACTGTCTGGAGGTGACAGAGAGCAACACCACATCAGTGGTGGATGG  
GGATAAACGGGTGAAACGGCGGCTGCTCATGGAAACGTGTGCTGTCAACAATGGAGGCTG  
TGACCGCACCTGTAAGGATACTTCGACAGGTGTCCACTGCAGTTGCTGTTGGATTAC  
TCTCCAGTTGGATGGGAGGACATGTAAGATATTGATGAGTGCCAGACCCGCAATGGAGG  
TTGTGATCATTTCTGCAAAAACATCGTGGGCAGTTTGAAGTGCAGGCTGCAAGAAAGGATT  
TAAATTATTACAGATGAGAAGTCTTGCCAAGATGTGGATGAATGCTCTTTGGATAGGAC  
CTGTGACCACAGCTGCATCAACCACCT

Sequence 3254

CGGGCAGGTACGCGGGGCTGCTTAAACTCTTCAGAGGTTCAACATCGCTTCCAGAAAAA  
GATCAATACTCCTGACGTGGCAACCTGTGAGACTCAGGACCGCTAGGAAATCAGCTCTT  
GTTTACCCCTCTATCCATTACACTACGATCCAGCTGGGTTTAGGCATCACTTCTCTGAG  
CAATCCTCCCTGATGTCATGAGGCAGTGCTGAGTGCCTTCTCTGGACCTCTGTTTACTT  
GCCTGTAAATCCTGAACATCTGGAAGGGAGTCTGTTCAAGCAACATATCTACGCCTTG  
CAGCACGGTGCTGGCCTGCAGCTGGTGTTCGCAACAGCTGCTGACTGACGGGATGCA  
TCGA

Sequence 3255

CCGCGGTGGCGGCCGAGGTACCAGGCTAGGCAGCTCTGGAGAAAGCAGAAGTGGATAAAT  
AAGGTGTGGACTCACCAAAGACAGTTCCAAGGTCAATTTCACTCTGACACACTCTCTGTG  
ATCTTCCACAGTCAGCACAAATGCCTGCCCTGTGGGTGTTGTATAAATATTTGTTGAATG  
AATGAATCAATCATTCAACAGACCAAGGCCAAATCAGAACCCCAAACCTAAGGTCTTTA  
TACTCTCACTGTCCATCCATCGATCTTCTGTGAGAAATCAGAATATACCTTTGCAATAC  
CCTTTGCTAGCCTTTCAGTTATCTTTGAATAGAGGCTCTGAGCCTTGAAAATATTGCCT  
GGGAAATATTACACCCATTTGAAGTATCTCCCAAACACCTCAATTAACATATGTTGCT  
GTCTGGCCAGG

Sequence 3256

ACATTAATTTGCTTANGAAGGAGGATTTTCTTAAACATCAAGTCTGCCTTTTCTCTAAGG  
CTTTATGATATGAGGCATCCGTATTCATTGAATATGGANCTTANAAATATAGGTATTGAG  
GGGCCACCACACCANGCTGACTTCTTGATCTTGAATTTTATAANGATTCTAAAGGGCATT  
GGGTAGTTCCANGACATCTGAAAACCTTGAGGGAAGGTGCATTCTCTGATTTTGTGCC  
TCTGCCCAGCAGTCTGGCTTCTAACAAAANTGGTCAAAGGAATGCCTGACTCACATGAAG  
GCTTCTTGCAAAAGTGTCCAAAAGGAAAAAGAAAGGGACCAANTGCTTAACCTCCTC  
CAAAAAGACTCATAAGACAANCATTGGCTTNCAACCTGCCAAAATGGGGGAAATTTNG  
TTTTTACAATTCACCCAGGGAAAAANGN

Sequence 3257

AGGGGCGAATTGGAGCTCCCGCGGTGGCCGGCCGCCGGGCAGGTACGCGGGATTGTG  
TGACCTTCCACCTTAATTTTCATCACATGTGAGTCTAGTATCACCTGGATTATTCAGAT  
TGATTTTCTTACTTAAATTCAGTAGAAAAATTGTGAATCTGACTATGAGGGGAGGCAGTA



Table 1

TGAACTCATTAAATATGTATTCTGTTTGGAGAAATATTCGCTGGATAGCTAGAATTTTA  
GATTGGGAAATCANGTTTTACATCAGCAATCAAATGAATAGTAGTTTAGAAGTTTTATT  
TTTAACTTCTCATTTTGAAATAATTCANATTTACAA

Sequence 3258

CCGCGGTGGCGGCCCGAGGTACTAGCTCCCTTACTTACTAATCATAGAACTGTGGATATA  
TTTTTAAAAATTATTAGTGTCTTTAGTTNTCTCACTTGTNAAACACTGAACAGAGCTCCT  
GTCATTGAGAGCTGTNGCAACATGACAGTTAATAGTGTAAGCACTGACCTGGGGCCTGC  
ATGTAGTAGGCACTCAATAAATCGTGGCAATCATGACATTGGTGATGATGACACTCAGTA  
ACTAGTAGGTGTTATTATTAAAGTCACAAAAACAGCTAGTACCTGCCCG

Sequence 3259

AATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGAGGTACCAGGTTCAAATAGTCAGCAG  
CTCATCATAATCAATGAGCGAGGACATAAAGTAGGAAAAATGCATCACCATGGTGAGCAA  
GGAAAGCAAGTTATTGGAGGCACATGTTAACACATAAAATATAAAATTAATATGATCACA  
CTGGAAGGCTTGCCTGAGCCACAGTTTGAATGCCTACAATAAGATGAGATGCACAACA  
AAAAGCAAGAGAACCTGATCAAGTGGGTGACCTGGCCATGGTGCTCTCATCAGTGGGGAC  
CCAAATGCTTATGTGGACTCACCAGGTATCGAATTAGACATGAATAGGAGTGTTTGTGT  
GATGGCAAGAACTATATAATCAAATGAATACAATGAACTTTAAAAATAATTGTAA

Sequence 3260

CCGGGCAGGTACCTGGTGCAGCCCATATCCATACACAGTCTAACTCTGGATCCCACACTC  
TAAACCGCATGCAGTAATACCTGGTTTCAGTGACCTCAGATTCGTCCTCCTAGGCTGC  
CGCTGGAAGACTAGCAGCTCTTCATTCTGTTTTCTTTTCATTGTCATAGATTATTTGTT  
ACAACTGTCTGTGGAATGAAATCAGAATATTTTTAACAAATGGATATAAATCATGCGTCA  
TTTCTCTATGGNTAACATGTGTCTCCTTAAGTTGAAAATGAAATCCAAACGGACTAGGC  
TATATACATGATTGTTTTCCACTCTGCCTCCCTTTTAAAGATGTCACAACCTGCCATTTA  
TAATGCAGAGCGGTTTCTCGCTCCATCTNTCCTATTTTCTAACCCCGGTAACAAAACCC  
TCCTGCAGACAGCACCTTTT

Sequence 3261

ATGCTCNCTTNGCNTANNCATGGTCATAANTGTTTTNCTGNCATCCTGGTCTTGCCAGC  
ACCATCACTATCTTAAAGGACTTCTCCATCTTACTCATGGAAGGTGTGCCAAAGAGCCTG  
AATTACGGTGGTGTGAAAGAGCTTATTTAGCAGTCGACGGGGTGCTGTCTGTGCACAGC  
CTGCACATCTGGTCTCTAACAATGAATCAAGTAATTCTCTCAGCTCATGTTGCTACAGCA  
GCCAGCTGGGACAGCCAAGTGGTTCGGAGAGAAATTGCTAAAGCCCTTANCAAAAGCT

Sequence 3262

GTTCTGGAATTCTATTATGTGAATGTAAACCTATATAATATATTTAGCCATTTTCTCAN  
TTGGATATTTGGTTATTTCTATGTTGNCACAATTTTAAATCACATTGAAATAAACTANG  
CCCTTTGACTCCTTTCTTCTCTTACTCCATGTGGNANACTAAATGTGGCTGCTA

Sequence 3263

ACCTTCTCACACCACATCTTCCAGGATTACACTTTTATGCTACACCTGCACTGATCAGTC  
TTCTACTCCAGTCTACATTTTGTCTTCGTAAAAATGTTGAGGATGAATGCTGTTCCACTT  
TCCTTTCCTATAGCGAGATGGCCTNCCCGGTACCTGCCCGGGCGGCCGCTCTANAACCTN  
AGT

Sequence 3264

AATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACTCACAGCTGCATCACACTGAATATCAT  
CTCCCTGCACTGCCATTTCAATTTGAGCAGGGCTTTCCTGTCAAGAACATTCATATCTTT  
TGATAAACAGTGCAATTTTCCCTGATAGTCTGTATGGGACAGCCTCCTTGTTTGCACTCT  
GAAGGACAGGGACTTCAGGACCTCCTGCTGTGGTCACCAAGGAATCACATTCAAACCTCT  
CAGCAAGGTGTTATGGTCTTCTCAGTTTGCCTACGATCCATTGAAGCAAAGGTTTCTT  
CTCTCAATACACCCTCTGCTTATGCCAGGGGGACCTCCCACTGTCCTCTCTATGTGTTCT  
ATTTGTTCTGACTGTTAGTACCTGCCCG

Table 1

## Sequence 3265

CCGGGCAGGTACAGAAAGTTCACATGAGAATGCCAAAGTATCTTGATTCTGCATATCTT  
ACATTGTGATGGAAAAGAAAAATTCAGAAATATTTAAACATATTTAGTTTTATATTTACC  
ATGATTATAAGTCTCCAATTTTTCTCAATATTCTAATAATCTTGTCTTCCAAAAGTAA  
ATAATAATTTTCACAGAAAAGCAGCCAAGTACTGAAAATAACAGCTACAGTTGTTTTTG  
ATAAACATAATGAGAAACCATTAAAGCAATGCATTTATTTAAAAAATTAGTTAATTTTTATG  
TAAAGTTTATCCAGTCAAATGAGTATGTAGAATAATTTATTATAACACCTTCATAGTCAT  
TCCTGTATTACAGAAATCTCTTTTAAGTAATGCAAAGAAGTTGGATGATTTATTTTTTA  
CTTTTTTACTTTCCAAATATAAATTCT

## Sequence 3266

GCGGGACAAAAGCCGAGAACACACATGCTCTCAGGGGGCCCCACCAGGGTTAAAGAGACTG  
AAAAATAATTTTGGCTGCGAATTTAAGTGAGGATGAACACCACGAGGAGCTTCATATGC  
AGAAATGAAGTCCTGGCTTTCTTAAAAAAAATAAAAACTAATGCCTCAACAACAATA  
CAACAGAAACCCCTTTGGGTTTATTATTTCAAGCCAGGTCATGCTAGTTTCACAAGAGTTT  
GTGAAAATGGATGCACATGAATAGAGCCTTTAAAAACTCGTGATTAAAGAGAAAGATTTT  
ACAAGTTGATGGTTTGGTAGAATGGCAGTCATAAAAAACAATTGCTCTTTGGTATATGTAT  
TGGGTNAAAAAAAAGTT

## Sequence 3267

AGGTACTGAGAGGAGAACACACAAGCAGACAGATGGAGGTGTCCACAAGACAGTTGGGAG  
TTTGAGTCTAAATTTGAGGGATTGATATAGATAGTTATATTTGGGGTTTCTTCACTGAT  
CAGTGTTAGTTAATAGCCTAAGAGTAAATGATACCTAGATTAAGAAGAGCAGCGGGCTGT  
GGACCGAATTTGGGCACACCATCAATGACGAGTTACCCATGAAAAAGCCATTAGAAGAG  
TTGATGGAGCATGAGGAGACCATGAGAGGACAACGTCACAGGAGTTGGGAAGAGGGAGTG  
AGCGACACTGACAAGTACCTGCCCCG

## Sequence 3268

AATGGTCAACATGGCATCCTATGTTTTGGAGTCTAACTGGCGNNGGTGTCTGCTCCTCTTC  
CATCCACTTTGCACAAGTTACTTATCCTCTCTAAGCTTCAGGTTTCTTTTCTCATCTA  
AAGAATGGAAACACGTCTGTTAGGATTCTTTGATTGCAAGCAACAGAAACAGATTCATTT  
TTGCCAGAAAGGGTAATGTATTGGAATAATCTTAGTTCTCTGCCANAAACAAAGGAAAAG  
GCCTTGCAANAATGGAACTAGGCAACTCCATGGATCGAGATGACAGAAGAAGTATATT  
CTCCTCAGCATTCTGACACCAGAATGACTCCACCCTAACCATTTGTCATCCTGGGTTCTC  
ACAGGGTAAAGCTTGATTGGCT

## Sequence 3269

AGGTACGCGGGGCTGCTTAAACTCTTCAGAGGTTACCATCGCTTCCAGAAAAAGATCA  
ATACTCCTGACGCGGCAACCTGTCGAGACTCAGGACCGCTAGGAAATCAGCTCTTGTTA  
CCCCTCTATCCATTACACTACGATCCAGCTGGGTTTAGGCATCACTTCCTCTGAGCAATC  
CTCCCTGATGTCATGAGGCAGTGCTGAGTGCCTTCTCTGGACCCTCTGTTTACTTGCCTG  
TTAAATCCTGAACATCTGGAAGGGAGTCGTGTTTCAGCAACATATCTACGCCTTGACGAC  
GGTGCCTGGCCTGCAGCTGGTGTCCGCAACAGCTGCTGACTGACGGGATGCATCGGTA  
TTCACAGGGTTACTAAGAAGTGCTTGTCTCGGTCAGGCCAGGAAAGAGAGATGACAGAC  
TTGGTCCCATCGGCAAACTCTTACAGACAAAAATCCACCTCACCCATCTCTACAAGCT  
TCAGGGCTCAACACAGGGGCTGGCACATGAAAGCTCCTTTNCT

## Sequence 3270

GATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGAACTGGGAGGGTTTTAGTCTGATAG  
CCACAATTTTGACCTAGGCAGGAAGCTTTACAGCTTGAGGCAGTTTCATGGTCTGAAGAC  
AACTTCTTGTGACTTGCTGCCGGTGTGGACTGAGGAGAGAGCCTCACTGGGTGAGGAG  
CACGAGAACAAAGTGGATCCCACTACCACATCCACCCCTCCTGTTTCAGAGGCAGATCA  
TGGGACCAAGGACTACTGAGAGTTCCATGGCCCTACCCATCATCTGAAATGCCCAAGAACT  
CCTCCCGATTAAACAAAGGTCAAGCATAAACTCTATTGCCACCACCACAGCTGGTCTCAC

Table 1

TTT TAGGTGCTACCTCCTGTCTCTAAAGGTTGATCTACACAGTCCCTTACAACATCTGCCG  
ACTCAAGAGCACCCGCGTACCTGCCCCG

Sequence 3271

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTCAAGCCAGGAAGTAAATTG  
CATTACAAAAGTCAAATTCCTTTCCCTGGTGGTAGCCATGCAAAAGACTTGGCCACTTTT  
TCACTCTTGTCCAGGGAAGAAATCTAGAAGTAGGAACCCATCTTAGTCAGAGTCAGGGC  
CACATAAAAAGAGCAAAAAGGTCATCTGGCATAGACCACCTCCCTGCTTCTAATGTACC  
TGCCCCG

Sequence 3272

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGTGGCGTAGCATTCCATGTT  
CAGCTTTGACATTTATTTTCTCATATCAACCTTTTTACACGTGAAACACAATCTCGCTC  
TTGAAGTCTTAAGTGCACGATCTGTGAAACCTGATTTATATTNTCTTCAGTGTATTCTT  
GT

Sequence 3273

CGCCCCGGGCAGGTACACAGGTAACCACATTTAGATGGACTGGGATGTTGCCACACATACA  
AGCATTGATAACTGGCTTCTCATTACCTGAATACATTCTTCTGTCAGAGCAACAGACTCA  
GCTATGCTTCTGGCAAAATTGTTCTTAATTCTCTATTGATTAATTTATTCGGTAAGTATT  
TATTG

Sequence 3274

GACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTAACAGTCAGGA  
ACAAATAGAACACATATAGAGGACAGTGGGAGGTCCCCCTGGCTAAAGCAGAGGGTGTAT  
TGAGAGAAGGAAACCTTTGCCTCAATGGATCGTAGGCCAACTGAGAAGGACCATAACACC  
TTGCTGAGAAGTTTGAATGTGATTCTTGGTGACCACAGCAGGAGGTCCTGAAGTCCCTG  
TCCTTCATATGCAAAACAAGGAGGCTGTCCCATACAGACTATCAGGGGAAAAATGCACTGT  
TTATCAAAAGATATGAATGTTCTTGACAGGCAAAAGCCCTGCTCAAATGAAATGGCAGTGC  
AGGGAGATGATATTCAATGTGATGCAGCTGTGAAGTACCTGCCCCG

Sequence 3275

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCATCTCTGTTTCTGAGGAA  
GCAGCAGAGGAGCCTATGTGATCCAGANAACCTGTTCTTGGCTTCTGGAAGCNGAGATGC  
AGGAATGGACCAATAAGGCATTAAACAAATTCATTANAATCTCAAGAAAGAAATATCTA  
ACAGTATAATCATAATAACAAAATTTTGATTTCTTCAGAAGCACTCCAATAGCTTCACCC  
GCATTAGCTAATCTTGTGCAGTGAGGAGGTGCAATTCCCTCTAGTCTCCCGNGTACCTGC  
CCGGGCGGCCCGCTCGA

Sequence 3276

CCGCGGTGGCGGCCGAGGTACGTGGCGTAGCATTCCATGTTGAGCTTTGACATTTATTT  
TCTCATATCAACCCCTTTTTACACGTGAAACACAATCTCGCTCTTGAAGTCTTAAGTGCAC  
GATCTGTGAAACCTGTATTTATATTTCTTCAGTGTATTCTTGTCTGTGTGTGTCCTAA  
ACAAACCAAAAGAA/ACTTTCCAAATCTAAAGTATTCAATCTCCAATTGGAGCAAGAGGA  
GTCAGTTAGATACTATCACGGCATTCAATTTGGGCTGGCTTGTCATATTTACTTAT

Sequence 3277

GGCGAATNGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACTCAATAAAATAAGAG  
ATACTATAGTAA/ACTCTTACAGGAAAAATTATTAGAATTTGTGCTATACCAAATCAATT  
TCACAAAAATGA/ACTGCCTGTCCACTGTTTTCCACAAAAAATCCAGGCCATCTACACCT  
TGCTGGAAGGATGGAACCTCAACTGCTATACTCCTTAGATTGCTATACAGCAATCTAAGT  
GGCCCCATCACAGCTCCTCTCCTTGAACATTTGTTGAGATCAAGTTGCAGCTGGGCCAGG  
CACAATCGGTCACAAGTTAGACAGCTGAGGGCATTCCAAAGAGTAGTGTTCCTTCCTCCA  
CATTATCTGCCAAAGTAGTCATCTACCTTCAGGCAGAGCTAACCCAAGGCCTGTCCCTGA  
AA

Sequence 3278

Table 1

CGCCCGGGCAGGTACAGGGAACCTATTGGAGCACCTAAGAGGAGCACCTACCTTGAATTTA  
GGGGTTAGCAGAGGCATCCTGAAAAAAGTCAAAGCTAAGCCACAATCTATAAGCAGTTTA  
GGAATTAGCAGAACGTGCGTGGTGAGGAGATGCCAAAGGCAAGAAGAGAAGAGTATTCCA  
AACAGGAGGGATTCCAAAGAGAGAAGAGTATCCCAACAACATTTGCACAAACCTGATGG  
GGAGAGAGAATGTGGGGTGGGGATGGATGATGAGACTGAN

Sequence 3279

GTACAGGGAACCTATTGNAGCACCTAAGAGGAGCACCTACCTTGAATTTAGGGGTTAGCAG  
AGGCATCCTGAAAAAAGTCAAAGCTAAGCCACAATCTATAAGCAGTTTAGGAATTAGCAG  
AACGTGCGTGGTGAGGAGATGCCAAAGGCAAGAAGAGAAGAGTATTCCAAACAGGAGGGA  
TTCCAAAGAGAGAAGAGTATCCCAACAACATTTGCACAAACCTGATGGGGAGAGAGAAT  
GTGGGGTGGGGATGG

Sequence 3280

CCGCGGTGGCGGCCGAGGTACAAACAGGCTTGTAGTTCTTTGTGAAGGATGCAGGCAAGAG  
GGATGTCCAGTTTAGACGGGCCCTGACAGCAGCAGCCTCTCCACATCAAGTGAAGTGTG  
ATTGTTAACGATCATTGCCTGCACAAAGTCATAGTTGCCTTTGAAGTAGTCCACCCAATA  
CTTCATCATGACATAGCGGGGCAGGATTGGGGTGTTCACATTTTGTGATAAGATGGTGT  
GTTAAATCTAAAGCTTGAAGAACTGGATAAAATTAAGCTTGTAGTTTGAAGCTTATTTT  
TTAGGCTGGCATCTTGAGTAACTGTTGTCCAAGGGCAGCAGCCAGATTTCCACCAGCAC  
TGTCACCAGAAATGCAAATCTGCCTGGATCAACCATATACTTCTGTAAGACTTCTGGCT  
TCAGGAAATACCTTGTGGCCCCGTACCTGCCCC

Sequence 3281

CCGCGGTGGCGGCCGAGGTACAGAAGGCATGAAAGGCTTGGGGCAGACCTATTACATTCC  
TCATCTTCTTACAGCCCAAGAGAATATAGGACTCANAGATAATGATGCAGAATCTAGAGT  
TCTCAAATCTGGGAGAAAACCTCAGGCTCTGGGATTTCCTGTAAGCCCTGCAACTTCTTT  
CTCTCCACTCCCCAGCCCAGAAAAGCTAAACCTCATGAACTTCATTTAATGAGAAGACT  
TGAGAAATGAAACACTCGGACTTGAAGTATATCGTGAAGATTATTTGGTCTTCTTTGGT  
TCAAAATCATACGATGCTTCACTATTACCATTAGAGCATCACAGAAGATTTCCAAGTAT  
CTTAGGCCAAGTGTGGTGGTTCACACCTATAATCCAGCACTTTGGGAGGCCGAGGTGGA  
CAGACTGCCTGAGCTCANGGAGTTCAAGACCAGCCTGGGCAACATGGTGAGATCTGTTAT  
ACCTACAGCCTTTGGACCTGCC

Sequence 3282

CCGCGGTGGCGGCCCGCCCGGGCAGGTAAGGAACTGAGTAGTCACAAATTCAGAG  
AGCTGCTGGGAGGTAGATGAGTTGGGGCTGGGAGGTGTCCATGGGATTTGGGGGCTTGAG  
GNTCACGGTCACTCAAGACAGCAGGATGGGGTG

Sequence 3283

CCGCGGTGGCGGCCCGCCCGGGCAGGTACGCGGGGGAATGATATTTTATGGGATTACTCA  
ATCTACCCACCATTAGTTGCAGGTGACAAGAAAGCTAAGTTGGCAGATGTTTGTGCTAG  
AAGCTGTGGGTTTACGTCTCCTTTGTGCATGTGTTCCAGACATACCAAGTGGCTTGGTAT  
TTAAACATCATGCTCAGGTGTGCAGGGTAGTTTTTGTAGTTATAATAGGTATGCAGGCGCT  
GNGGGATT

Sequence 3284

CAGGTAATAACAGTCAGGAACAAATAGANCACATAGAGAGGACAGTGGGAGGTCCCCCTG  
GCTAAAGCAGAGGGTGTATTGAGAGAAGGAAACCTTTGCCNTNANTGGATCGTAGGCAAAC  
TGNAAGGACCATAACACCTTGCTGAGAAGTTTGAATGTGATTCCCTTGGTGACCACAGCNG  
GANGTCCTGAAGTCCCTGTCTTCANATGCAACANGGAGGCTGTCCCATACAGACTATC  
AGGGAAAAATGCACTGTTTATCAAAAGATATGAATGTTCTTGACAGGCAAAGCCCTGCT  
CA

Sequence 3285

CCGGGCAGGTACACCTGCATTAGGGACAAGAAATCTCTATGTTGAACAAATACTGCAGGT

GGTGCTGATGCTAAACTTTTACAAACATTGGTTATACAATTAATCAACAGTTATTTGATG  
ATTACGACACACAAATAACTCTTTGCAACCAGGTTTACGTTACTGGGAACAAACTAAGTAG  
GTTTCCCCAGGTGTGGAGAGCTTTCACACAATATACCTTAACTTACATTAACAAAATTAC  
CCAGGTAATATTTACTAAACAGTTTTAACATAAATGATAGTGATACACAAATTTGAGTA  
ATAATTCACAGAAAATAAGTGCACAATTAGGCTGTAACTGCTGTTTATCTGTTTAATGTG  
AAATACCCACTAGCTTCCCTCCACCCTTTACCCTAACTCCCATAAAATCTCCCAACCAAG  
CCACCAACATATACCCACCACCATTTGCCACTCTGTCCTCAAACCTCTGTTGGGCATTTG  
CTCCTGGTTCTTGAAACTTCATTCTGCAAAAGCTGAATAAAATTACCTCCTTAGAAAAACA  
GTCTGTTTCATGATTAATAACTAATAAAAT

CCGCGGTGGCGGCCGCCCGGGCAGGTAAGTACTAGCTGTTTTGTGACTTTTAATAATAACACC  
TACTAGTTACTGAGTGTTCATCATCACCATTGTCATGATTGCCACGATTTATTGAGTGCCT  
ACTACATGCGAGGCCCCAGGTCAGTGCTTTACACTCTTAAGTGTGTCATGTTGACAACAGCTC  
TGAATGACAGCAGAGCTGTGTTCAAGTGTGTTACAAGTGAGAAACTAAGAGCGCTAATAATT  
TTTAAAAATATATCCACAGTTCTATGATTAGTAAGTAAGGGAGCTAGTGCCT

AGGTACTCTGCGTTGTTACCACTGCTTCCCGGGACTCTGCGTTGTTACCACTGCTTCCCG  
GGACTCTGCGTTGTTACCACTGCTTCCCGGGACTCTGCGTTGTTACCACTGCTTCCCGGG  
ACTCTGCGTTGTTACCACTGCTTCCCGGGACTCTGCGTTGTTACCACTGCTTCCCGCGTA  
CCTGCCCCG

TGGCGGCCGCCGGCCAGGTACNCGGGGGGACAGGCCATCTCGCTATAGGAAAGGAAAGTG  
GAACAGCATTTCCTCAACATTTTACGAAGACAAATGAAGACTGGAGTATAANACTG  
ATCAGTGCAGGTGTAGCATAAAGTGAATCCTGGAAGATGTGGTGTGAGAAGGTAGCAC  
AAGTGAAGCAGAGATCAGGAGATAGGGAAGGGAAGCTGGAAGCAGAGGTCACTGGAGGG  
AAGGGGAGATGGACACATTCAAGGCTACAAGCAAGTTCTATGTGATTTGCTCACCTCTC  
AATTGTGGGACCCCTCAAAATATGTACCT

CGCGGTGGCGGCCGAGGTACTCACAGCTGCATCACACTGAATATCATCTCCCTGCACTGC  
CATTTTCATTTGAGCAGGGCTTTGCCTGTCAAGAACATTATATCTTTTGATAACAGTGC  
ATTTTTCCCTGATAGTCTGTATGGACAAGCCTNCTTGTTTGCATCTGAAGGACAGGGAC  
TTCAGGACCTCCTGCTGTGGTCACCAAGGAATCACATTCAAACTTCTCAGCAAGGTGTTA  
TGGTCTCTTCTCAGTTTGCCTACGATCCATTGAGGCAAGGTTTCTTCTCTCAATACACC  
CTCTGCTTTAGCGAGGGGACCTCCACTGTCTCTCTATGTGTCTATTTGTTCTGACTG  
NTAAGTACCTGCCGGCCGGCCG

CCGCGGTGGCGGCCGCTCGGGCAGGTAAGTCTG1'TTTTGTGACTTTTAATAATAACACC  
TACTAGTTACTGAGTGTATCATCACCAATGTCATGA'ITGCCACGATTTATTGAGTGCCT  
ACTATGATGCAGGCCCCAGGTTCAGTGCTTTACACCT'ITAACTGTCATGTTGACAACAGCCC  
TGAATGACAGGAGCTCTGTTAGTGTTTACAAGT'AGAAAACTAAAGACCACTAATAATT  
TTTAAAAATATATCCACAGTTCTATGATTAGTAAGT'AGGGGAGCTAGTCCT

TNACTACTATAGGGCGAATTGGANCTCCCCGCGGTGGCGGGCCGAGGTACAATTTGCATG  
CACGGACTTCTACATACAGAATACTTAAACAGTTTCATTGTATTGAAACACGCTTAAAAAT  
GGCCCTAGCACTTGCTGCAATCCTGCTGTGTAGGAGTTAGCCAGGTTGTGTCTGCTCCCT  
CTAGACTATTCTATACATCAAGAACTAAAAAGAAAGCAATCCCAGCATGTGGCTGGAT  
GCACATCAAAAGCCAAGTCTGTCTATGAATTTTCTTCTCTGTTCTCTTCATTACAGGTCA  
TGAAGCACACACTACTGCTACAGGAAAGGGCAAAAGGCCAATGTCAAGTGCTGTGTAATTGT  
TGGGTTCTTTAGTGGCAAAAGGCCAGCAATGTTGCAGCCAAAAGGGCATTTAAGAATACCT

Table 1

CCCCGGGCNCGCCGCTCTAGAACTA

Sequence 3292

GCGAANGGACTCCACCGCNGTGGCGGCCGCCGGCCAGGTACCTGGATGAACTACACTA  
GTGGTGGTGGAGATGGAAGGGACAGATTCAAGACAGATTAGAGAANCANNGGCANCAGA  
GCCTATTGAAGAACANGATNNNAGCCATGGTGAAAAGAGGAGATATCAAGGACGGTGTCT  
GTATTCGGNCTTATACAACTGGCTGTGGATAGTGCTACTCACTCCAGAATGCTCAGGGA  
GTTTAACATATTCTNGTTTNGTGCATGAACANGGAGGCTAGTAGTAGGGTAGAATCTTG  
AGAA

Sequence 3293

CCGCGGTGGCGGCCGCCAAAGTGTGGGATTACAGGCATGAGCCACTGCACCCAGCCAA  
GTTAGCTTTCTTCTAACAGCAGCCCATGTGCTGACTGCCAGTGAAGTCTTTCAATCTGGG  
ATGCTAGTTTCTTTATTTCAAAGTGCTATTGTGTTCTAACAATTAATGAAGTACTCAA  
AAAAGAGACTGCTGTATTAGTAAAGGCTACCAATGTCCTCCTGCAGATGTTTTAAGTAA  
CTTCCTGGTGCTGTACCTGCCCCG

Sequence 3294

CGAGGTACTAACAGTCAGGAACAAATAGAACACATAGAGAGGACAGTGGGAGGTCCCCCT  
GGCTAAAGCAGAGGGTGTATTGAGAGAAGGAAACCTTTGCCTCAATGGATCGTAGGCCAAA  
CTGAGAAGGACCATAACACCTTGCTGAGAAGTTTGAATGTGATTCTTGGTGACCACAGC  
AGGAGGTCCAGAAGTCCCTGTCTTCAGATGCAAACAAGGAGGCTGTCCCATACAGACTA  
TCAGGGAAAAATGCACTGTTTATCAAAGATATGAATGTTCTTGACAGGCCAAAGCCCTG  
CTCAATGAAATGGCAGTGCAGGGAGATGATATTCAGTGTGATGCAGCTGTGAGTACCTG  
CCCG

Sequence 3295

CCGCGGTGGCGGCCGAGGACGCGGGGGCTTAAACTCTTCAGAGGTTACCAAATAGAAC  
TTTGGGGAATCCTTTTAAAAATCAAACGCATACCTGGTAGGGGAAGTACAAATGGCAACC  
AGTTGCTCAGAGTTATTTGCTCAAAGGCCTACCTGCCTCCTAAGCCTCACTGTTCTTCAT  
CAACTGTCAGGGGTTAACTTTCAAGAGCTACTCCCAAAAGAGCTGCAGGAAAAATTCTGT  
CTAAACAGCCATGCAAAAGTGTCTGGGGATCACTACGGACAGAGGATGATGACAGAGGGC  
CCATGACATTGGGCCTTGTCATGGCTGAATACTGACCTTCCACTGTCATGGCTGAACACT  
GACCTTCCAGTGCTACAGCTTTTAAAAAGAGTAAAAACTATGTTTCATGGGTACCTGCCC  
G

Sequence 3296

AGGTACAAGCTCCACTGGAATAAAAAAGACTGTGTGGAAGTGAAGGGGCTCCTGCCACA  
AGTGTGTCACCCCGTGTGTCCTGCACTGCGGTAAGAGTGGTGGAGGAGACGGGTGCTTC  
TCAGATGTCACTCTGGCATTACCTCTCTTCAGGACTGCAAGGGGCCTACTCTGTCACCT  
GTGGCTCTTCTCTCTCTCAGGAACAAACAACAAAAATCAAATGACTCTGCTTTTGGGG  
ATGTCACCACCATCAGGACAAGTGTAACTTTAAGCTAAATGAAGGCAAGTGTAGTTTGA  
AAAATGCTGAGCTGTTTCCCGAGGGTCTGCGACCAGCACTACCAGAGAAGCACAGCTCAG  
TAAAAGAGAGCTTCCGCTACGTAAACCTTACATGCAGCTCTGGCAAAGCAAGTCCCAAGA  
GCCCCCGGC

Sequence 3297

CCGCGGTGGCGGCCGAGGTACGCGGGCAAGGCTTCCTCTTTAAAAATCATACATTTAATT  
CGGGTAGGGAAACGACTTGGCTTCTTTGTTCCCTGTGAAAGAAGTATATAAAAAATGCCCCCT  
TAGTAATATGCAGTCAGCTTACTTCTCAGCAAAGTCATTGTGAAGTCTTCCCTGTCTC  
AGGTTGGAATAGGAACCAATTCAAGGTAGATTAAAGACTTAGGGCCGGGCGCAGTGGCT  
CATATCTGTAATCCCAACACTTTGGGAGGCCGAGGTGGGTGGATCAGGAGTCAAGAGAT  
CAATACCATCCTGGCCAACATGGCCCGTCTCTACTAAAAATACAAAAATTAGCTGTGCAT  
GGTGGTGGGTGCCTGTAGTCCAGCTACTCGGGAGGCAGGAGAACCACTTGAACCCGGGC  
GGCGGAGGTTGCAGTGAGCTGAGATTGCCCACTGCACTCCAATCTGGTGACAGAGCCAGA

Table 1

CTCCGTCTCAAAAAAAGAAAAAAGACT

Sequence 3298

CCGCGGTGGCGGCCCGAGGTACGCGGGGGAGTCCCCAATGTCATGGAGTATATATCTAA  
TGCCACTGAGAAACCTGGCTCACCCCTGCACTGAGAGAAGCACTCAAAACCACCATCACCA  
ATAGCGCTACTAAAGACAGTGCTTTGGAGCTTCCAAGCTGATAGATTATCCTTTCTCCCC  
ACCCTCAGATTTCTCCAGTGCTCTGGCACTTATAGTCCATGTTTGCAAGAAATATTTTA  
TTATAGTGCTCTGAAACAAATTTATAAGTTTGCAAGAGAAGTTTAAAAAAGCAAGCTC  
AGCAATATTTGGGGGCTTTAAAGCTGATGATGCAGCTGACCTACTGGAGACAAAGGCAG  
TGGGAGGGCCCTT

Sequence 3299

CCGGGCAGGTACGCGGGGGACGCTGGGAGGAGATGCTGCCACCTAGGTTACTTGTAGGAC  
CCTATACGGCAACCTCCTTTGCCAGGAACATTTATAAACATCCTGCAGGAAATGCAGT  
GAAGTAGAAGAGACAGGGATATCCAGAAGTTATGCAAAACATCAAGAGAAGATGAGAG  
GTCAGAGATGGGAAGAAACAAGAACTTTGACATGCTTGGTGTCTTGCCCAAGCTTTGAA  
GAAGTTTACAAAGTCTATATGTCAGAATACACATTTCCACCTTGCCCAAC

Sequence 3300

AGGTACAGACATTCCTCATTCTACTCCATTAGAATTCTGGACCTCTTCTGTATTTCTTT  
CTGGGCCCTGCTACCTCCTAATCTGCATCTGGTGCTGGGAACCCAATAAGCCCAGCACAA  
TGCCAGTGTGAGGCATTCTGAGATCCGGGATTGGGTTGTGAGACTCCTGACTGAATTACT  
AGCCTTCTGAGCAAGGCTACCTCTTTAGACCTTCTCCAGTATAAGCTGCATAAGCTCTG  
GCTCATTCCACAACTCCTGCACCTAATCATGTTCTGGACCTCAGACTGTACCTGCCCC

Sequence 3301

CCGCGGTGGCGGCCCGAGGTACGCGGAAATGTTAGACAAATGTAGCCAAACCAAAAAATAC  
ACATGTTCTATGAATCCATATATGCAAGGTTCAATAGGTGATAGTAGCTACTCTTTTG  
GGAAGGAGTGAGGAAAGGACTGAGAGAGTATTGCAGAGGGGGCTCCGGGTGTTTGTAATT  
TCTATTTCCAGTGACAGGTGTGGTTGCATGAGCATGTTCACTTTGTGAAATTCATTGA  
GCTGTAATAATATACAGAATTATTTATGAATGAAATGATATATAATTCAGTGGGAACC  
TGGGAGGATAGGGAGGAGGTGGGGGAGCTGAAAAACATGTGTGGCCGAATGCTTAACAA  
TTGTTATTGTTAGTTATGGATACNCGGGGGGTGNGTTGTACCTGCCCGGGGCCNGN

Sequence 3302

AGGTACCCTGTTACTGAGGCAATACCTTTCTGGGTAATTTTCTCAATCCTCTGGGTATAT  
TGAGGTTGCCTACTGTGGCTGATGAGGAGGCCAGCTATTATTTCTAGCCTTCTCTGTCCA  
TTGAGCATTGTCTATCTGCTTCTTTTCAGTAGTTATTTGCCCTGTAGTTTCCTCACATGT  
GTGCACTGATCAATACTTAAGCCTGAACTGTCTGCAGCACTCCAGATCTTTATTTCTCT  
TTTACTTTGCAACTTGTTCTCTCTGTAGTTCTACTCTCTTCGCTCTCTCTCTCTTCCCTC  
AGCACAACCCTCTCCATCTCTACACTTCCTCTCACCTCTGCCCTGTGAATTCATTTGCA  
TTTGCTGCCCCAAATCCTCTTTAACTCATTGAGAACCCTGAAGCTCTTGATTTTNNCC  
TCTCTTGAACCTTGACGCTGAGAACCCTTCTTCCAAGCAGCAAACTGGAGCAATATAGN  
AGAATACCAATTTAATGGTTGGTTNTGGTTTGGTTTTNGGCTTCCAAGGAATCTTTTG  
GCTAGCACTGGCCTAACCTTTTGGT

Sequence 3303

CCGCGGTGGCGGCCCGCCCGGGCAGGTACCCATTAAGTAGTTTTTCGACCCATAAAC.TCT  
CCTGTCCCAGTAGTTCACAGTATCTGTTGTTCCCATGTTTATGTCTGTGGGTGCTCAATG  
TTTAGGTCCCACTGATAAGGGAAAACGTGGTATTTGGTTTTCTGTTCCCTGCATTAATTTG  
CTTAGGAAGGAGGATTTTCTTAAACATCAGTCTGCCTTTTCTCTAAGGCTTTATGATATG  
AGGCATCCGTATTCATTGAATATGGAGCTTAGAAATATAGGTATTGAGGGGCCACCACAC  
CAGGCTGACTTCTTGATCTTGAATTTATAAGGATTCTAAAGGGCATTGGGTAGTTCCAG  
GACATCTGAGACCTTTGAGGGAGGGTGCAATTCCTCTGATTTTTGTGCTCTGCCAGCANT

0

Table 1

CTGGCTTCTAACAAAAGTGGCA

Sequence 3304

CCGCGGTGGCGGCCCGCCGGGCAGGTAAGTCTGGTCAGGGCAGGGTGACACATAAAA  
TTAACCATCACAGGGAAGGGTAGGGCTGGAGAGGCAGACTGTGGCCAGGTTACAATGCGC  
TGAGGCTAAGGAGACTGTGTTATCCTGTAGGCCAGTGGGTCTTACTCTGAAGTCTTTG  
GGTGGGACATTTCATGACTTCAAGAGACCTGTGAATGCCCTAAGATTATAAGTAAATCT  
GTGAGTCTGTAAGCTAAAGCTAAAGCTATTTTCTGGGGCCCAACATCTAAAGAAGATTCT  
GAAGCCTTAGGGTAGCCGTGGAGAAGACATGAAGGTCCATTTTGCATGGTAGAACCTGC  
CTGGCTCTTGTGCAGTGTGGGAGGACAGGTTTGCAATGTGGAGGTGTGGCAGGCATGGA  
TTTGGGAGGATTGGCAGAGGACTCACCATGTCCATACCACTCACTGAGATGGCAAATATT  
TATTAA

Sequence 3305

CGGCCGCCCCGGGCAGGTACCCTATCCAGAGGGTCTACCCCATGTAGAACCTCTCTTTTC  
TGTTACCTGATTAGGTGTAGAAGTAGCCAGTCAAATTCATCCTCGCTACCACTGTTATT  
TCTGCCACCTCTAAGCATTCTTCTTTCTCATTCACTCTTTTAAACATGTGTAAT  
ACATCAGTAAGTAAATTTATAATATCCACTCCAATCCATCAACCTCAGTAAATTTAATAT  
TCACATCATCAGCCCTTCATATCCATACATTCTCAAATCTTTATTCTGTTGACTCC  
ATGGATTTGCATCACCTCTCCACAGCAGCAAGGCCAAGACCCAAACACTGAAAGTCTCG  
AGGGCTCCATCTTGAGCCTCTTGAGAATCTCTAAGTGAACCACTGCCACTGCCATTTCT  
TTCAATTTCCCAACACGCTGATTCTACTGTCTCTTGGTCACTTCATCCCATACCTGTC  
ACAAAGTCCATTTCAAACGCTGCTTNCACAACTAAGGTAGAATTTGGGAGATGGTAATTA  
AAAAAATACAGATTCTACACCTTGCCCATGGGAGCTTTTGATTCAAGTANATAAGAGGG  
GCAAGGTTTCAAATCTTGGTATACCCAGGGGAATTAATAAT

Sequence 3306

AGGTACCATGCTGGAGTTTTGCAAAAGCTTCCAGGTGATTTTAAAGAGTGCAAGAGTT  
GAGAACTCTGCCCAAGACTTACTAAGGGGTGGCAAAACCAGCCATTTTAAACCTCACT  
TTGAAACCTTCCCACTATTATCAAAGATTGGGGACGGGAACAAGGGAGGGCATCACTG  
GGAGAGGTTTGTCTCTGCCTTGTGGGAATAAGCGAACCGGGATTCTGTCTCTCTGCA  
CATTGATCTCCCTTCTCGGAACACCCCTCTTCCACTGTGTCTATGGGTGAATCTCAGG  
CATTTTTCAAGGTGGAAGTCAAGTGTACCCCTTTTCAGAAAGTCCCTCCCTATAGGC  
AGAATCGCCTCACCCCTGGTAAAGCGACCACTCCACTGTGAGGCTTGTATCCCGTGTG  
TTCCATCTCATGGGGTCTTACCTTATGTGTGCGTCTCGTTAAGACCACAGCTACCTG  
AACATAAGCAGGGCCGGGTCCTATGTGTCTTTTAT

Sequence 3307

CCGGGCAGGTACGCGGGCTTTGACCAAAGAGTGCTCTGACACACTGCATTCCCTTTCCCC  
TAGGGGTAGCCCATGTTGAGGGCAAGACCTCCAGAAATCCTGCAGCACCTCCGGGTCTTG  
ACAGTTCCCTGTAGTTGCCACGGTCTCAGTGGGTCTACCGGGTTGTTTGCANGAAATC  
AACTCACGTGGAGACATTAAGGGCTGAGATTCTCTGGGCAGAATGGCAGCACACAGCCAA  
TAAAGTGCCCACTTNNTCAGCTTGGGTTTGACNGTGAGGGTGAATGAACTTTGCCAAGT  
GGCCTCCTGATTGCTCTGCTCCCAAGGACTCCTCAAATGGCCACCANNAGNAGTTCCTGG  
GCTTTGGGGGTGCAGAGGAACTCACCANCATTTTGGCAGNNAGCAATCTTGNGGCATGTG  
GAAAGGGGAGCAAGAAACACCCAACCTACT

Sequence 3308

AGGGCCAAATGAGCTCTTTGCNNNGGCGGCCGAGGTACGCGGGCTAAATACTGTGCTC  
TGACATTGATGCCNTTATCCATATTNTNAGGGCTTCTGTGGTGTTAGGCCTCTAATTT  
TTCTCTTCAGTAAGGGGAATAACTTTGCTGTGTGTCAGCGCAGTGCTCAGGAGGGTTGCAAT  
CTAGAAACAGTGATTGTTAAATTTGCCTATAAACACACAATATAAACAATATGCCACAGA  
CACAGAGGCCCCCAGCATAGTTTCTGGAAGGTGAAGTCTCACCTCTGCCAGAGTAGAGTC  
ACAGTGGGAATTGAGGCTTGGCATCTGGGTGCCTCTGAAGCTCTTCTGTGGCTCCTGTT



Table 1

AGACAATTGACCCCGAAACACAGAAGATAGAGATTGCACATTGCGTTCAGTAATTGTTGT  
TTATTTATGTTATTTCTGAAAATAAAAGACAGCACAGGCTGCTTATCTTTAAACCACACA  
GTACCTGCCCGGGCGGCCGCTCTAGAACTA

Sequence 3309

GGCCGAGGTACATCAGAACNTTCCAGTAACAGGATGGCGTTNGCAGCTGNCNTNNGAATG  
CTCAGCCTCGCTGGGAATGGGTCCCCTCTTACTTGCTGGGTGACCATGAGCATGTTGATC  
CCACCTCAGAGCCCCGCTTCCTCCTCCTCTATAAATAGGACCATGGATAGTAGCTTGGA  
GAATTCATAAAATATAGTGTGCTGAACACTCAGCACGTGCACTAGGAAGAACCAAAAAT  
GAGCAGGACCCCTCACTGATATTTAATGTCCCCTAATTTGTCAAGGGACATTATATTGCAT  
AAGATTTGCTTTAAAGAAAGTAAATTCCTTTCAGGCAAGTTGTTTGAGTCACCAATAGGT  
TTAAATCAAAGGAAGTTTTTGTCCCTCACGATTTTGCATTTTTAGTGCCTTTCCACAACA  
AATGTATAAAAGGAACATTATTTTAAAGTGAACCTATTTTGGAACTTCTTACTTAAAAG  
CAATTTTCTACTACAAGTCAAAGGATTAAAGCAAAAAAAGGNGAATCTGCAGCAGCA  
TATATTGGATATGNTTCTAGAAATACTTTTTTAAAGAAGGCAGAGAACCCTAAGCTAAA  
AGCAGAATTTAAATTTCTA

Sequence 3310

CCGGGCAGNTACCTTTGCTGAAGTATCATACACACAAAANTTNCATNACCCTGGCCCTTT  
ATTTTCCATTACCCANTTTTATTTGTGTCATAACGATATCAAGTATATAAAATTGTCTTA  
TTTGGCTCTTTACATGTTTCTCACCTTTATTGCCAATAATTAAGAGTTATAAAAAGCTCT  
TTTATTATTCACTGTCAAATTCCTTTACTTTTAATTTAAAAATCTTTGCTGTTATAAA  
TGAGTAAATAAGCTAAGAATTGAATTATGTATTTAATCAATTCTATGATCTACATTAGTA  
AATATCTTGATAGGTTTGTATAAAGACCAGTAAGCCAAGAGGTTTGGCTAAAGGCTGAT  
GAATGTTTAACTGAAATGTCTTATGCAACTAATGTAGACGCTATACGAAAAAAGGAGGTA  
TAATAATTGGCAAAAGCAAGGGCTTTTGTAGTTTTCAAAATATTAAAAATGGGCTGGGCG  
CAATGGCTCACACCTGTAATCCCAACCCCTTTTGGGAGGCCCAAGCAGGCGGATCACCTGA  
GGTTGGAGTTTCGAGACCAGCCTGACCACCGTGGAGAAATCCAGTCTCTACTAAAAATACC  
AAAATAGCCAGGCATGGGGGTACATGGTCTGNAATCCANCTTACTTGGGAAGCTGAGGCA  
ANAAAAACACTTGAACCCTGGAAGTGGAGGTGCAATNANCCCANAAATGCCCATTCACCTC  
CAACCTGGGAAAAACAAGAAGGGAANCCTGTCTCAAAGGACAAAGAAAAAAAAAAAAA

Sequence 3311

CGGCCGNGCCGCCATNCAGGNTTNGCGACCTCGCGCNCGANTNGCAGGTNCANTTNCGTG  
CTCTTGCCAGTACTCGGGCGCGGCAGGGAATAAAAGCGCTCGAATATACGTTCCAGCGCA  
TACGCGGGGATGCCCTCACCGCGGTGCGGCACGGCGATTCCACCTGGCTGCCCTGGCGC  
TGCGCCGTCAGCTCGATGCAGCTACCCGGTGGCGCGAAGC

Sequence 3312

CCGGGCAGGTACCCATCAGGAATATCCGGCTCAGAAGCCAGGGCCTCAGAGACTGTTCTC  
TCACTGAGACCTAGTGAGGGAACTCCCTGTGTTATTCTCACTGATGGCCCAGGAACCACC  
CTTGCAAGTCATGACCACCAGCATCATGTAGCACTGGAAGTATCTGGGCAATGACCTCT  
GTCTAAACTTCTGAATCCCCTCCGACAAAGACCCAAGACAGCAGCATGGCCATGCAGCTG  
TGCTCACATCTCACCCCTGCACTGGCCAGGAACACATCTATCTTTCCTTTGGGTAGGGTC  
ACCCAAGTCTGCTGCCACTTCCAGCTGTGAAAGGCATCTATGTGACAGACCCCTCTGCAG  
TTTGAAACTGTGTGACAACCTTAAACCCCAACTCAGCATCTGCATGGGTTTCTGAGAATT  
ACCTATATCTTTTGTGGTCTCTTTGCTGATTCTCTGTTTCATTAAAAAAGT  
GACTCGTGATCCCTGAGTTCCTATATAGCCAATTTTACTCACTAGCTAAAGAAACACTGT  
ATTTAAATGACAAACCTAGCAACAATTAGGCAAGCTCTCATCAGGACTTCATGCCAGGC  
TGGGGTGAATGGCTTAAAAAAGTCTTNCACAGCGGATCTTGAACCTTGACCATNGGGG  
CTTGGTGGCCACATTTGACCTAANGGGCTNATNGGGGGNAACC

Sequence 3313

NGGCGGCCGAGGTACAAAGAAACAGCTTCAATCCTTTTGGGGAATGGCAGGTTTTTGAG

Table 1

ANTNTGTGTTCCAAATTTGGGGTCATAGCAAAACCCCTTTATAAAGCAACAAGGGGGTCA  
GAAAATGAGTCAATGGAGTGGCCCTAGAAATGAGGGGAAACTTTGCCAAGTTAAACAGG  
CTCTTAACAAAGCTCCCACTCTTGGCATCCCAAACCTTCATTAAGCATTTTTCTTGTATA  
TAGCAGGAAAAAAGGGCATAACTGTGGGAATACTAACCAGAAATTGGGATCAGAACCC  
ATACCAACCATCTACTTTTCAAAGAAATTGAACAGAGTAGCCTCACAGTGACCAAGCTGC  
CTGCAGGCAATAGCAGCCACTGTTATTTAGTGGAAGAAGCCACTAAAATCACCCCTGGGT  
CAACCACTGAAAGTGTTAACTCCACATCAGGTAAGGTCAGTCCTGGGAATAAAGGACAT  
ATCTGAACGATGGGAGAAAGGTTAACCAATAACAGGCTATATTCCTAGATAATCCAGAG  
GTTACCCCTTAAA

Sequence 3314

TTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGTTTGTAGTCAGGAAGCAGGCATTAAACAC  
ACATATACACTCACAATGCTAAAAATAAAGCTGTTAATTTGATCAATGCCAAGAAG  
AAAAAGAATGGGGCTTATAAGAGAATACAACAAGCGGTGCAACTTAAATGAGGGGGCAGG  
GGAGTATCTGAGAAGCCCTCTGTGAGTGAGTGACTTTTTTTTTTTTTTTTGTAGATGG  
TGTCACACTTTGTCTCCAGGCTGGAGTGTCAGAGGTGCGATCCAGCTCACTGCAATATCCC  
CCTCAAGCAATCCCCTGCCTCAGCCTCCCGAGTAACTGGGACTTCAGGCACATGCCACC  
ACGCCTGGCTAAATTTTTTTGTATTTTAAATAGAGACGGGGTTTCA

Sequence 3315

CCGCGGTGGCGGCCGCGCCGCGGCAGGTACTAGCTGTTTTGCGACTTTTAATAATAACACC  
TACTAGTTACTGAGTGTCATCATCACCAGTTCATGATTGCCACGATTTATTGAGTGCCT  
ACTACATGCAGGCCCCAGGTCAGTGCTTTACACTCTTAACTGTCATGTTGACAACAGCTC  
TGAATGACAGGAGCTCTGTTCACTGTTTTACAAGTGAGAAACTAAAGACACTAATNAAT  
TTTTTAAAAATATATCCACAGGTTCTATTGATTAAGTAAAGTAAGGGGAGCTAGTNCCTT  
GGCACGCTCTAATAAACTTTGTTGGGATTCCCCCCCCGGGGCCTTNGCANGGAAATTTTC  
GTNTAATTNCAAAGGCNTTTAATTGGAATTACCCCGGNNCGAACCCCTTNGAAGGNGGGGG  
GGGGCCCCGGGGTTACCCCCAANTCNTTTTTTNGTNTTACCCCTTTTAAAGTTGAGGGGG  
GTTTAAA

Sequence 3316

CCGCGGTGGCGGCCGAGGTACTAACAGTCAGGAACAAATAGAACACATAGAGAGGACAGT  
GGGAGGTCCCCCTGGCTAAAGCAGAGGGTGTATTGAGAGAAGGAAACCTTTGTCTCAATG  
GATCGTAGGCAAACTGAGAAGGACCATAACACCTTGCTGAGAAGTTTGAATGTGATTCTT  
TGGTGACCACAGCAGGAGGTCTGAAAGTCCCTGTCTTCAGATGCAAAACAGGAGGCTGT  
CCCATACAGACTATCAGGGAAAAAATGCACTGTTTATCAAAAGATATGAATGTTCTTGAC  
AGGCAAAAGCCCTGCTCAAATGAAAT

Sequence 3317

CCGCGGTGGCGGCCGCGCCGCGGCAGGTACACTTCCCCCTCCTCCTCCCCGACCATGCCT  
GAATTCAGACCTCTAGCCCTTGATCTGTATCTGACCCAAGAAGTCTTGCAATTTTAG  
AAGGCTATCACCTCTTAACAGCCATTTCTGCTGCTTCTGCACACTTTCTAATTTCTCCT  
CTGCTTTCCCTGGAAATCTGATGCTTGACTTGGACACAATTCAACCCTGTCTCCTTATAG  
AGACAGCTGCTGAATGAATGCTAGAAATTTAAATTCGCCTTTAGCTTAGGGTTCTCTGC  
CTTCTTTAAAAAAGTATTTCTAGAAAACATATACAAATATGCTGCTGCAGATTACCTT  
TTTTTTTGTCTTAATCCTTTGACTTGCAGTAGAA/ATTGCTTTTAAGTAAGAAGTTTCC  
AAATAGTTACACTTAAAAATAATGCTCCTTTTATACATTTGNTGNGGAAAGGCACTAAA  
AAATGCAAAATCGTGAGGGACAAAACTTCTTTGATTTAAACCTATTGGTGACTCAAAAC  
AACTTGNCTGAAAGGAATTA

Sequence 3318

TACGACTCACTATAGGGGCGAATTGGAGCTCCACCCGCGGTGGCGGCCGCGCCGCGGCAGG  
TCCGGGCAGGTACTCTTGTAAACCATCAGAGGTGATCCCATCACCTTCACAGCCCCAGC  
CTCTGCTCCAGTCCCTNCCCAGCGAAAGGGCCGCCCATGCCATCCTGCTGCTGGTGATT

Table 1

TGCTTTGTGGTCATGGACTCAGTGGACATCATTATTTTATTAACCGTGTGGTAGGTTTT  
AACTCANTTATCCTGGATATCAAAGGTTTGTGGTCCATCTTAGGCTTCCGTTTGTCT  
TTGGTACCTCGGCCCGCTCTAGAATAAN

Sequence 3319

AGCTCCACCCGCGGTGGCGGCCCGCCCGGGCAGGTACCCTGAAGGCCGCTTACTTGGAAC  
CGTATCTTCTAAATGCTCTGAAAACCTATCCAAAGGCAATTAATCACAATATCATTG  
AAAACATCTAAGAACTACGTGTAAGCACTTCGGGATAGTCAGGTAAAGGCCGCCCTCTAA  
TTATGAAGCATTGATAATTAATAGAATTCTAAGCCAAAGCTTAAATCCGGATACACAT  
CATAATGGTTAAGCCAAATAACACTTAATCATTTTACCTTNTATTATTGATAAAGGCAAC  
ACACTGAAGTAGACAGACAGTAAAGAAAAAGTCCACATCTTTTATTGGGTCCAAATAAC  
CTGATTGNAATACTTAAGCCTCTGATTTTCATGTTTCANAATTTGTATGTTAATGACCT  
TAGTAGATGTGGCTTTGTCCAGCCTCAAAAAGGGTTGCTCTCCAGCCAGGGGCCCTTTT  
TTCCANNTACTGCTCCCATCTTCTTAAAGTATATTCAAACCTGGTGAGTGAACCTTTTATC  
CCGCGTCCCTTGGCCGCTCTAAGAACTAAGTGGATNCCCCNGGCTGGCANGGAATTCGA  
TATCAAGCTTTATCGGATCCCGTCNAACCTTCGANGGGGGG

Sequence 3320

GCGGCCCGAGGTACCAAGAAGAAAGCCATGGGCACTGTCAGTAAAGAGATCTAGAATGGG  
ACAAGACAGGGAGAAAGCCAGGTGCAAGACACAGGAAAAGTTCTAGAAAGAAAGCTTTT  
TGCATCTAACATCAGTCTCCAGATTCAACCATCTCAATATTGAAGAAATTGTCATCCT  
ATTCCCAAATAAAGTGAAATGAGGTTTTTATGTAAAGTGCTTAGAATGGAGTGTGGCAC  
ACAGTAAGGATCACCTTTAAGTATTACCTATAGATATACTGATAAATACATGGATATGC  
AAGGGAGAGGTTGGCCTTTTAACTTGAAGGAGTCAAGAAAAAACTGCCATGCGCATTTTG  
CTTTGACTTTGAAAATCTGGATGCATGGAAGCTCTATAGAAGCACAGCAGGAATTTCAAG  
AGGTATGCTGCCCAATGTGTGGCTGGCAGAGTGTCTACACCAAAGGCTCCATTGGCATTG  
AGTGGGGAGAACATACTAGAAGTGGGTTTTCTTGTCTGAGTTGAATTTTTTTTTAA  
GCAAGTTCATCTTCTTCTAGTGAAAAATAAACCAAGGATAGGGGAA

Sequence 3321

CCGCGGCGGCCCGGCCCGGGCAGGTACCTCCTCCCTATGCATCTGCTGTGGGAAGTG  
GGGTAACATAGATGATGCCACAGGGCATGTATTCAGGCACCACAGGCAACAGTGAATG  
AATGAAGTGAAGTGGTATTTATCCATTTCTGGAAAGTCCAGGGTTTGGCTCTGCAGGGC  
CAAGAGAACAGCTTAGCTGTGCCTTAACCCAGTCCTGGAGAAGACAGCAGGCCGTAATC  
ACGGGGAGGAAACCCATCTTTAAGGGCTCCTCGCTCAGGTGGTGACAAGGTGAGGTGGT  
CATCTATGCTGTCTTTATCAGTATCTGTCTAAATACTGTGCTCTGACATTGATGCTAAT  
ATTCCATATTATCANGGCTTCTGTGGTGTGTTAGGCCTCTAATTTTTCTCTTCAGTAANGG  
GAATAACTTTTGTGTGTCAACGCANTGCCTNANGAGGGTTGCAATCTAAAAACAAGTGA  
TTGGTAAATTTGNCTATTAACNCNCCATTTTAACCATNTGCCNCANACAGAAAGCCCCC  
AACATTAGTTTTTGAANGNGAAAGCTTANCTNTTGCCAAATAAAATCACAGTGGGNAAT  
TGANGCTTTGGCATTGTTGGTGNCTTTGAAGCTCTTCTGNGGCTTCTGGTAAANACAATT  
GANCCCCAAACCCNNAANATTGAAATTGCCCATTTGGGTTCANAAAANGNGGNAATTAAG  
GNAATTCTGAA

Sequence 3322

CCGCGGTGGCGGCCCGGGGGCCATTGAGACTGCCATGGAAGACTTGAAAGGTCACGTAGCT  
GAGACTTCTGGAGAGACCATTCAGGCTTCTGGCTCTTGACAAAGATAGACCACTGGAAC  
AATGAGAAGGAGAGAATTCTACTGGTCACAGACAAGACTCTCTTGATCTGCAAATACGAC  
TTCATCATGCTGAGTTGTGTGCAGCTGCAGCGGATTCTCTGAGCGCTGTCTATCGCATC  
TGCCTGGGCAAGTTCACCTTCCCTGGGATGTCCCTGGACAAGAGACAAGGAGAAGGCCTT  
AGGATCTACTGGGGGAGTCCGGAGGAAGCAGTCTCTTCTGTCCGCTTGAACCCCATGGT  
CCACTGAAGTTCCTTATGCTACTTTCAGTGAAGTTCCTATGAAATACACCAGTGAGAAA  
TTCCTT

Table 1

## Sequence 3323

CCGCGGTGGCGGCCGCCCGGGCAGGTACCCTGAAGGCCGCTTACTTGAACCGTATCTTC  
TAAATGCTCTGAAACCTATCCAAAGGCAATTAATCACAATATCATTGAAACATCT  
AAGAACTACGTGTAAGCACTTCGGGATAGTCAGGTAAAGGCCGCCCTCTAATTATGAAGC  
ATTTTGATAATTAATAGAATTCTAAGCCAAAGCTTAAATCCGGATACACATCATAATGGT  
TAAGCCAAATAACACTTAATCATTTTACCTTTTATTATTGATAAAGGCAACACACTGAAG  
TAGACAGACAGTAAAGAAAAAGTCACATCTTTTATTGGGTCCAAATAACCTGATTGTAA  
ATACTTAGCCTCTGATTTTCATGTTTCAGAAATTTGGTATGTTAATGACCTTAGTAGATGG  
TGGCTTTGTCCAGCCTCAAAAAGGGTTGCTCTTCAGCCAGGGCCCTTTTTCAGGTAC  
TGCTCCCATCTCCTTTTAAGTATATTCAACTGGGGAGGTGAACCTTTTATNCCGGCGTA  
CCTTNGGGCCGNTCTAGAACTAGTGGGATCCCCCGGGGCTGGAAGGAATTGAATTTCA  
ANGCTTATCGATTACCGTCGACCTTCGAGGGGG

## Sequence 3324

CCGCGGTGGCGGCCGCCCGGGCAGGTACTGTGTGGTTTAAAGATAAGCAGCCTGTGCTG  
TCTTTTATTTTCAGAAATAACATAAATAACAACAATTACTGAACGCAATGTGCAATCTC  
TATCTTCTGTGTTTCGGGGTCAATTGTCTAACAGGAGCCACAGGAAGAGCTTCAGAGGCA  
CCCAGATGCCAAGCCTCAATTCCTACTGTGACTCTACTCTGGCAGAGGTGAGACTTCACC  
TTCCAGAACTATGCTGGGGGCTCTGTGTCTGTGGCATATTGTTTATATTGTGTGTTTA  
TAGGCAATTTTAAACAATCACTGTTTCTAGATTGCAACCCTCCTGAGGCACTGCGCTGACA  
CAGCAAAGTTATTCCCCTTACTGAAGAGAAAAATTAGAGGCCTAAACACCACAGAAGCCC  
TGATAATATGGAATATTAGCATCAATGTCAGAGCACAGTATTTAGGACAGATACTGATAA  
AGACAGCATAGATGGACCACCTTCACCTTGTCAACACCTGAGCGAGGAGCCCTTAAAGA  
TGGGTT

## Sequence 3325

CGAGGTACATGTGACCCAAGGACCAGCCCAAACGCAGATGCAGACAGATTCCAGACTCTT  
CAGCAATCCTTCCCTTATCTGGGGCAAAGGCTGTGATGCCTACACAGTCTCTGTCAATTC  
ATCCCTGATGCTCCAGTTTTTAGGAGAAACCACCTCGTCATGTTCAAACCTCCAGAAATG  
GTGGTCCTGTGGAAAGAATCCTAGGCCAGCAGCTAGGAGACCTGCTGTGAGTCCCAGCCC  
TGCCCATCACAGCTATGTCAGGTGGTTCAGACATGTTGGGCTTCAGGTCCCCATCTATAA  
TCAAAAAGTTTGTTCCTAGCTTCAACAATCTATGACTATTATTTCCGTTTACTGATAGAG  
TAACTAATTACTTCATTATAGGTTTTCAAGACCAGTTACCTCCTGTTTGGTTCAATTAGC  
AAAATGCCAACATGATTGTCTGATTGTTTTGGTGGTTGGGCTTCAGGAGAGAAACCCAAT  
GGGAAATAGTTTANGATCTTAAGCAGATTTTGGATTTTATTATTCCAAGGGAGTATATGC  
CAGGAACCAGGGTTTGTCTGCTATTTCTCAAAGTTCTTTGCCTAGGAAAAAGCTCACTC  
CCATCGGTCTCTTCCATTCTAGGGGATGCCTTAAGACTCTTNNATTTANAAGTCTAGAGC  
CNGANGAGAAGGAATAATCATGGGTAANACTGGCTTTAATGGAANACNTT

## Sequence 3326

ACNNGGGGAAATGACACAACTGACAAGTATTTATTTAGCCTCATTCCCATCACTCACCA  
CTGCCACCCANAAAAGTGTCACCTGAGTTTTATTGCATGCAGCCCCAACACTAAAGAAAG  
ATCAGAAATNTTTGTTCCCGTGGTGGAATAAAGGGCTATTTGCCACGTCGCCAGGCT  
TCCTCTGGAAGCATNTGGGAATCATTCCAGAAATTCATTTCCAGGTGTGTGTTTCTTT  
AAGGAAATATTGTGGAGTANAGAAGGAACGCACCTGNGCAGGTGCCATTGGNTGGGGGCCG  
TTGCTATGGCAGATNAGCCTTATTANTGAATAGCAAAGGAAGGAGTACCAGGAAAAACAC  
AACATGANCAGGCNGAGTGCCACCNCCGTGGCCTTGGGGAAGCCNCAATATNTTGGCT  
TGACATGGTTCCAANAGTGNGGGCATTAGGGAAACCAACNTTTGAGCTTGCAANATTCA  
ACAAGCATNGGCCATGCCANCCAGGGAAAAANTGTGCTTTACTCCAGGAATAAGGGAGCAA  
GGCCCCATANTTTCTNTCTTNNTTTNGGGNCTTCTTTTGAACNGAATTGNTTTAANGG  
NNAACCTCTTGAANAAAATTGGGGTCTTGCCTTTTGGGGGANCTTAAAAA

## Sequence 3327

Table 1

CCGCGGTGGCGGCCCGAGGTACGCGGGTATTATGGAGATGCTCTGTTCCATCCAGGGAGG  
TGCAGGTGAAAAGAGGGCAGTTCATCCTCCTCACACTTAGGGCAGGGAGCAGCATGCAGG  
GGCAGATCAGCAGCTTTGCATGTTGACAAATCCACTCTCTGCTGCAGATGCCTAGGGGAA  
GTTGCAGACTTAAATTTTCTTTTGTAAATGGGGGAACACAAACAGATCTTATGTCACAC  
TGGTTACTCCAGAAAAAAGAAAAAGAAGGAAGGAAGAAAGAAAAAGAATAANTATT  
ATATATANANANAAAAGTACCTGCCCCGGCGGC

Sequence 3328

TATAGGCGAATTGGACTCACCGCGGTGGATACCCTCCACTCAAGGAGGTAGAACTCAGTC  
CTCTCCCTTGTGAGTCTTCACTAAATNAGTGACCCACTTCCAAAGAGTGGGAGTATGGA  
AAGGGAAACATANTANCTNTACAGGGGAGAAAAATGACAAATGACGCTTCACCAAGTGA  
TCAAAATTAAGTGTACCAAGTGATAAAGTCATTANATTNGTTCTAGATAATCTTTCTAA  
AAATTCATAATNCCAATCTAATTATGAGCTAAAACATCCAGGCANACTCAAGTTGAAGGA  
CATTCTACANAATATCCCCTGGGGTATTTTAAGAGTATTCCTCAAACTGTAAAAATNA  
TGGAANAATAA

Sequence 3329

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACTAAAAATGGCACCTT  
CTGTCTTCTGACATCACTGGACAGTATAGGGGGGGAAAAAATCAACCTTAAGAAAAAGAA  
ATTTGATATGAAAAAAGAATTCAAAACATCCCAATTTGCAATTCAACTGGTAATATAAG  
CTGTGTCATCTGATACTCTTCAGTGTCCAATTAATCAACTCTATCTGGCAATCTATA  
GTCACAACCTACCTAAAAATGTCTTAAGGAAGTAGGAATAAAGAAGGCATGTAGCTTTAAC  
TGAAGCACTACTTTGTAAAGAATAAAAGCATTTTTTTTTAAATGTACCTGACACCAA  
TATCTGGTTGGAAGAGGTGCTGTTTTAAATTTTCAGGGGAACCCTCAAGATTTATGCAAG  
AATTGAAAAAATAAAAGTAAATTTCTCTTCCCTGTATAGGCTTAGCATTATTGAATAT  
ACTATGCCTACTCTCAATAAAAAATGAAACAACCTCAAAATATTTAAAGATCTTGTTCCT  
AAGCACTTCAATTCTCAGGTTATACTAACTTTATGATTTTCATATCCCTCAATAAATCC  
TAAATCTCTCAATAAAATCCCCGCGTACCCACAAAGCTGCATTCAAACCTCAAATCTGT  
GGGAATGAGTGACTCGACAAAATGGTAATTCNGGATCAAACCTCATCCCCTGACTGNGTG  
AAAAAAGTCCTGCCCCGGCGGGCGCTTCTAAATAGGNGGATNCCCCGGGCTGNA

Sequence 3330

ACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGATATACAT  
TCTCACAGTAAACAGTTTTTCAGATATTGAACAAACAAAAAGTAGGCAGTGCTAGCCAGAGA  
TTCCTTGGAGCCAAAAACAAAAACAAACAATAAAAAATTGGTAATCTTATATTGCT  
TCAGTTTGCTGCTTGGAGAAAGTTCTCAGGCTGCAGCTCANAGAGGAAAAATCCAGAGCT  
CAGTGGTCTGAATGAGTTAAAGAGGATTTGGGGCAGCAAATGCAATTAGAATTCACAGGG  
CAGAGGTGAGAGGAAGTGTAGAGATGGAGAGGGTTGTGCTGAGGGAAGAGAGAGAGGGCG  
AAGAGAGTAGAACTACNAGAGAAGAACAAGTTGCAAAGTAAAAGAGAAATAAAGATCTGG  
AGTGCTGCAGACAGTTTCAGGCTTAAGTATTGATCAGTGCACACATTGTGAGGAAACTGC  
NGGCAAAAAAAAAAAAAAAAAAAAAA

Sequence 3331

CCGGGCAGGTACGCGGGAGACTAGAGGGAATTGCACCTCCTCACTGCACAAGATTAGCTA  
ATGCGGGTGAAGCTATTGGAGTGCTTCTGAAGAAATCAAAATTTTGTATTATGATTATA  
CTGTTAGATATTTCTTTCTTGAGATTCTAAATGAATTTGTTTAAATGCCTTATTGGTCCAT  
TCCTGCATCTCTGCTTCCAGAAGCCAAGAACAAGTTCTCTGGATCACATAGGCTCCTCTG  
CTGCTTCCTCAGAAACAGAGATGGTACCT

Sequence 3332

CCGGGCAGGTACTCACAGCTGCATCACACTGAATATCATCTCCCTGCACTGCCATTTTCAT  
TTGAGCAGGGCTTTGCCTGTCAAGAACATTATATCTTTTGTAAACAGTGCAATTTTT  
CCCTGATAGTCTGTATGGGACAGCCTCCTTGTGTTGCATCTGAAGGACAGGGACTTCAGGA  
CCTNCTGCTGTGGTCACCAAGGAATCACATTCAAACCTCTCAGCAAGGTGTTATGNCCT

Table 1

TCTCAGTTTGCCTACGATCCATTGAGGCAAAGGTTTCCTTCTCTCAATACACCCTCTGCT  
TTAGCCAGGGGGACCTCCCA  
Sequence 3333  
CCGGGCAGGTACGCGGGATGAAAACCAATGATTTTGGAAAGCCAAATTGTTGAGAAGATA  
AGGTGGGGATTCCGACTACTAGTATTTTACAAATCTGATTGTCGTTGCAGGTTTGT  
TATTTTGTGTGTTAATGCTGAGAGTGGAGAATAGATTGGAATATTTGCCTCTTGTGTT  
CTTTTGTCTTGTAAACATTGCAAGTGGTCCACATTTTCTTTATTTAAATTTAAAGTTG  
GTGCTGGGGTTTCTGGTGTAAATAGAAGTGATACTTCTGCATAAAGTATTATGGAGAT  
GCTCTGTTCCATCCAGGGAGGTGCAGGTGAAAAGAGGGCAG  
Sequence 3334  
TTTTTTTTTGGACAGTGAGAGTGGTCTTATTTCTTCCCTAGTTTAGGTCACAGCAGTTG  
AGTCAGGGTATCATGCTATCGCAGGGCACAAATTTCTATCATCATCCATAGATCACTGGA  
TTAGTTGAAAAAGTCACTCAAATGCTGACCAGGAGCACATGAACCTCTGTTTATTTGGA  
CTTTCTGATAAATGGTGGCCAGGTACCTGCCCCGN  
Sequence 3335  
CCGGGCAGGTACAAGCTCCACTGGAATAAAAAAGACTGTGTGGAAGTGAAGGGGCTCCTG  
CCCACAAAGTGTGTCAACCCGTGTGTCCCTGCACTGCGGTAAGAGTGGTGGAGGAGACGGG  
TGCTTCCTCAGATGTCACTCTGGCATTACCTCTCTTCAGGACTGCAAGGGGCTACTCT  
GTCACCTGTGGCTCTTCTTTCTCTCAGGAACAAAAAAAAAAAAAAAAANANAAGTAC  
CT  
Sequence 3336  
AGGTACGCGGGGAAGTTTGATTTTGAAGTCACTGTTTATATGGGTACATCCCATT  
TTGATATACATTTAAATAATTTCTTATGTTGATTACGTAACAGTATTCTAATGTTGA  
GCATATATCTTAGACTATAAATTTAATTGTTATAGTTTGTCCATTTTGTGAACGGG  
AAAACTGATACATATCTTAAATTTGTATTTAAATTACCTTACATATGAGGAATTT  
TATACTTGAAAGTTATTGTTATTAACCTGTTTTCATAATGTGAGATATTCTGTCATAAG  
CACTTATGTTTTAAGTTGTAATTTAAATACCTTTCTTTTAAACATGCAC  
Sequence 3337  
CCGGGCAGGTACTCACCTTGTATTAGCTGAGTGACTTTGGTTAAGGACAGTTACTTAATT  
ATCCTGGGTCTCAGTTTCTCTCTTTGAAAAACAGATTCACTAAAATAATTTATG  
AAGTATTCAATTTGTGATAAGCACTAGTCTAGCTACCGGGGATATACATTTACAAAACAG  
ATTTTAAATATCCTGTCTGGTGGACCTCACATTACGTTCACTAACCAGGATAATT  
TCAGTGCCTCTCTCATAGGATTGTTGCAAGAATTAAATTGATGAATACATACGTAACACT  
TATAACAGTGTCAAAAATGAGAGCTCAGTAAAGGCCATCATCACC  
Sequence 3338  
AGGTACTGGGGGCTCCTAAACCATATATATCTTGCACCATTCTGGGGATATTTGCCAGGC  
CTGGGGGATCAAAATATACCCCAAATATTAACCAAGTTGAAGGGTGATTTGAGCCTACTT  
TTTGAACACTTTGTATCCCCTGTGTGCCAGGAAATTCAGGGTCTTTTCGTAACCTTGATC  
AGATGTCTCCAGGTTGGGCTACACACAAAAAGTTATCTACATACTGGAGTGACCTGC  
CCG  
Sequence 3339  
CCGGGCAGGTACATACAGCTTCATATCTGCTAATGGAGAAAATAACTTAACTTGGCCCT  
GCCAGGCAACCCATTTTCTTCCAGTTTAAACCTTAGTCTTTTTCAGGTTAGCTAGGCCAA  
TTCCAGGTGCTCGTCTACCTTCTTTCTCCCATTTCTACACCACCTTCTTTTGTCTC  
TCCCTGGGAGATATCTGAGCTTAAGGAAAAATTCGTTAAGAGTGGGGATCGGAGAGACCT  
CTGTTCCACTAGTTGCCTTCTGGACATTTTCTGGTCTCCACTGTTGATGTATCCATCCCT  
TCTGGCCTTTGGGTGCACTGAGGCATCTTGCTATTGTCTATGGTTATGCCATAGCTCC  
Sequence 3340  
CCGGGCAGGTACAGGTTAGCCAACAGGCCAACAAACAACTATGTCAATTACTCCCTAGGG

Table 1

TAGTCCACTGCAACTGCGAGAGTCCACACACATAATTATTAGTGACACAAGCATTGCTT  
TGGCCAACTTGATGCAACTTCCCACCTGAAATAGTAACTATATGGGCAAATAAGCCCCC  
TTTTTGCATTTTATCAAACAGGATTCAGTTAGGGTATTTAATCTAATCAAACAATTCA  
CAAATAGTTAATACATTTTAAAATGTAGGTAAAGTAAATATTTTATTTAGATTCAAAT  
AAAAGCATGGATATTTGAATTTTATTTCAACCAATAATTGCAGGTATAGGG

Sequence 3341

CGAGGTACTAAAGAATGTGCATTTATTTGTGGGGAGGAGAGGAGGTCTAAATAGACAATA  
AACATATAAATATTAATATTGTGAAAGTGGTATGAAGAAAAATAAAGCATGATAAGGAGA  
GAGAGGTGTTCCCTGGCTCTCCAGGGGGCTGAGGTGGAAGAAAAGGACTCCGGTTTTAGG  
TAAGATATCAGANAAGACCTCTCTGATTGACTGAAATGTATGCAAAGGCCTGCATGAAGC  
CAGGGACCATGCCGTGCTGACATNTG

Sequence 3342

CTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACCAAGAAGAAAGCC  
ATGGGCACTGTCAGTAAAGAGATCTAGAATGGGAACAAGACAGGGAGAAAGCCAGGTGCA  
AGACACAGGAAAAAGTTCTAGAAAGAAAGCTTTTTGCATCTAACATCAGTCTCCCCAGATT  
CAACCCATCTCAATATTGAAGAAATTGTCATCCTATTCCCAAATAAAGTGAATGAGGTT  
TTTTATGTAAAGTGCTTAGAATGGAGTGTGGCACACAGTAAGGATCACCTTTAAGTATTA  
CCTATAGATATACTGATAAATACATGGATATGTCAAGGGAGAGGTTGGCCTTTTAAGTTG  
AAGGAGTCAGAAAAAACTGCCATGCGCATTTTGCTTTGACTTTGAAAACTGGATGCAT  
GGAAGCTCTATAGAAGCACAGCAGGAATTTCAAGAGGTATGCTGCCCAATGTGTGGCTGG  
CAGAGTGCTCACCCAAAGGCTCCATTGGCATTGAGTGGGGAGAACATACTAGAAGTGGGT  
TTTTTTTTGTCATGGAGTTGAATTTTTTTTTAAGCAGGTTTCATCTTCTTTCTAGGGAAA  
AAAATAAACCANGGGATAGGGGGAAAAA

Sequence 3343

CCGCGGTGGCGGCCCGCCCGGGCAGGTACCAGGTTCAAATAGTCAGCAGCTCATCATAATC  
AATGAGCGAGGACATAAAGTAGGAAAAATGCATCACCATGGTGAGCAAGGAAAGCAAGTT  
ATTGGAGGCACATGTTAACACATAAAATATAAAATTAATATGATCACACTGGAAAGGCTT  
GCCTGAGCCCCACAGTTTGAATGCCCTACAATAAGATGAGATGCACAACAAAAAGCAAGAGA  
ACCTGATCAAGTGGGTGACCTGGCCATGGTGCTCTCATCAGTGGGGACCCAAATGCTTAT  
GTGGACTCACNAGGTATCGAATTAGACATGAATAGGAGTGTGTTGTGATGGCAAGAAA  
CTATATAATCAAATGAATACAATGAAACTTTAAAAATAATTGTAAGATCTTTACACCAGC  
CAA

Sequence 3344

CCGCGGTGGCGGCCCGAGGTAACAGTCAGGAACAAATAGAACACATAGAGAGGACAGT  
GGGAGGTCCCCCTGGCTAAAGCAGAGGGTGTATTGAGAGAAGGAAACCTTTGCCCTCAATG  
GATCGTAGGCCAACTGAGAAGGACCATAACACCTTGCTGAGAAGTTTGAATGTGATTCCT  
TGGTGACCACAGCAGGAGGTCTGAAGTCCCTGCTCCTTCAGATGCAAACAAGGAGGCTGT  
CCCATACAGACTATCAGCGAAAAAATGCACTGTTTATCAAAGATATGAATGTTCTTGAC  
AGGCAAAGCCCTGCTCAATGAAATGGCAGTGCAGGGAGATGATATTCAGTGTGATGCAG  
CTGTGAGTACCTGCCCCG

Sequence 3345

CCGCGGTGGCGGCCCGCCCGGGCAGGTACCCACAGAATGTGGCCCCAAATGATTCAATTA  
CAGCTAGAAGTTGTTCTCTTCCCAAAGCACGAGTCTTTGCATTACAGGATATTTTTTC  
TTTCATAAACATTCCGCGAGAATGTAAGTGGGATGAAGATTGNGTTCTGTCTTCTTCT  
TGCTTTTTTCTGTTTACTCTGATTTTATAAAATGCAAGTGTATGTCTTAGGACAAATTA  
TCCTCAGTTTGCCAGCAAGGTGAGTTTATAAATATTTTATTCAAATGAGAAAAATTCGG  
CTAGAACCAATAGTAAAGGATGGTGAGTTTCCAGNTGACCCACAATGACGTATTTAAC

Sequence 3346

CGAGGTACTTGATCGGAACCCGGCTGCCTCTAAGACTTGGTCTTGGGCAACCCGTGGGTG

Table 1

GGCAGGAAGGGAAATTATTTATTTATTTTGTAAAGGGGAGTGAAGAAAAGAAGACGTGA  
GGACCGCAGTTCAGTGAATGTAGAGTAATTGCAAAAGTGGGCTGCCTGCCCTAGCTTT  
TCCCGCTGTGGTTGCGGAGGTGGTCTTGGT

Sequence 3347

TCGACTCACTATAGGGGCGAATTGGAGCTCCCCGCGGTGGCCGGCCGCCGGGCAGGTAC  
CGATTGTTGAATGTTGCAGCCCTATACCTGCAATTATTGGTTGAAATAAAATTCAAATAT  
CCATGCTTTTATTTGAATCTAAATAAAAAATTTACTTTACCTACATTTTAAAAATGTAT  
TAACTATTTGTGAATTGTTTGATTAGATTAAATACCCTAACTGAATCCTGTTTGATAAAA  
ATGCAAAAAAGGGGGCTTATTTGTCCATATAGTTTACTATTTTCAAGGTGGGAAGTTACATC  
AAGTTGGCCAAAGCAAATGCTTGTGTCACTAATAATTATGTGTGTGGACTCTTGCAGTTG  
CAGTGGACTACCCTAGGGAGTAATTGACATAGTTGTTTGTGGCCTGTTGGCTAACCTGT  
ACCT

Sequence 3348

CCGCGGTGGCCCGGCCCGCCCGGGCAGGTACCAGAGACTCCTATTTATTTATACCAAGTAA  
GGGCCCTCCCACTGCCTTTGTCTCCAGTAGGTGAGTGCATCATCAGCTTTAAAGCCCC  
CAAATATTGCTGAGCTTGTGTTTTTAAAACCTCTCTTGCAAACCTTATAAATTTGTTTCA  
GAGCACTATAATAAAATATTTCTTGCAAACATGGACTATAAGTGCCAGAGACACTGGAGA  
AATCTGAGGGTGGGGAGAAAGGATAATCTATCAGCTTGAAGCTCAAAGCACTGTCTTT  
AGTAGCGCTATTGGTGA

Sequence 3349

TTTTTTNTTCCTTGGNTNCTTGCCTTACTTTTCAAGAAATACAAACAGAACTTTCTAAAAT  
CAGCAAAGAAGCAATTTTTCACCTTCCAAGTCCCAACATACTAATACACAATACTTGGCA  
GAGCTGTCCAAAGCAAGTCAGACCACATACAGTATACCTAAATCCTGACACCTCCAAGT  
TNTTAACAAATAATTTTTTTCTCCGTGGTAATGGTCTNTTGAAGTTAAATATAGNGA  
GAAATGTGTAAACATACCAATNTATTAATAAGACAAGTGAATCCCTTTAAGAATCATG  
A

Sequence 3350

GGAGCTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACTCCCGGGTGAACCTCTGCAGTCT  
GCCATTTCTTGAATCCTCTTAACCAATCTTAGAATTATCTCCAGCATCAGATTTTGCT  
TATTAAGGAAACCAGGCATTGTGAATGCTCCTTTCTACACTAATCTGAAAGACATAAAT  
AGTGGCAGAGAATGTTAGACATAGAGCGGGAAATTTTCAAGACTTTTGTGGAAGAATCA  
TCACTCTCCTGCAGGAAGTGCAAAAACACTTGATCTCTGTTTACACATGCCTGCAGACA  
CACAGAGAGGCCCTAATCAGCGGCTTGTGGACAGCCTTCTATCATAGCTACCCACTTTTC  
TCTGTGACCTTCCCTGTTCTTCCACTCCATGTCTATCCTGACTCTCATTACGCATCAGC  
GCTTGGGACACTTGTGCTGCCTTTATCATTTGGGAAACATGGCGCAGC

Sequence 3351

CGAGGTACGCGGAAATGTTAGACAAATGTAGCCAAACCAAAAAATACACATGTTCTATGA  
ATCCATATATGCAAGGTTTACAATAGGTGATAGTAGCTACTCTTTTGGGAAGG

Sequence 3352

TAGGGCGAATTGGAGCTACCGCGGTGGCGGCCGTGCGTGCCGGCAAGGACAAGATCGAC  
AACACGGAACCGGCCCTGTACTCGCAGTACATGGATTGGATCAACCTGATGACCTACGAC  
TTCCACGGCGGCTGGGAAACGAGCACCAACTTCAATGCCAGCTGTTTGGCGACCCCTGCG  
ATCCGTCGACGGGCATGGCGCGCGAATACGTGGGCGACAAGGCGGTGCAATACATGATTG  
CCGCCGGCGTGCCGCGCGACAAGCTGCTGCTGGGCATCCCGTTCTATGGCCGCGGCTGGA  
CGGGCGTGGCGCCAGGACCGAACGGCGATGGCCTGTACCAGGCGGCCACGGGCACGGCGC  
CGGGCACCTACGAGTCGGGCATCGAGGACTATAAAATCCTCGTCGCCAAGACCGGCACGC  
GCTACTACCATCCCGTGACCAAGCAGCTGTACCTGTACACGGGCGCGGGTGGCAAGTGGT  
GGAGCTATGACGACCCGACCGTCAT

Sequence 3353





Table 1

CCGTTTCGTTTCACCCGTTTTATCCCCATCCACCACTGATGTGGGTGTTGCTCTCT

Sequence 3359

GGTACCAAAGAACAAACGGAAGCCTAAAGATGGACCACAAACCTTTGGATATCCAGGATA  
ACTGAGTNAAAAACCTACCACACGGNTAATAAAATAATGATGTCCACTGAGTCCATGACC  
ACAAAGCAAATCACCAGCAGCAGGATGGCATGGGCGGCCCTTTTCGCTGGGGAGGGACTG  
GAGCAAAGGCTGGGGCTGTGAAGGTGATGGGATCACCTCTGATGGTTAAACAAGANTACC  
TA

Sequence 3360

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAGGATTCACTCTCATCAAATATCATGA  
AGTGGAGAACACGGTGAACATATGTTGGGGTTGATGTCTTTGCGGCATACAGAGAGAGGGC  
CTACCAGTCCACTGTGAAGGTCTTAGCCACAGATACAGTTGAATAGTAAACCAAGGTA  
TGCATTCAAAGTCCCAGTGAGGTAGGGACCAGTTCTATCAGGTATCTGCCAAGTATATAT  
TTGAATCTCTCCTGGCTGAGTTGGAACAACAGTGGAATTATTTGTTTTCACTCCATGAGC  
ATGAATAGAATACGGTCTTGGCGCTTTATTTTTAAAGATAATTTGAATTATTTGACCAG  
GGTTGAGCAATATTAATGGGACCTAGTATATCCGAGNATGTTTTTCACCCTTCATTTCTT  
TTT

Sequence 3361

TGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGGAGATGCTGCCACCTAGGT  
TACTTGTAGGACCCTATACGGCAACCTCCTTTGCCAGGAACCTATTATAAACATCCTGCA  
GGAAAATGAGTCTATATGTCAGAATACACATTTCCACCTTGCCCAACAGTAGAAAAACA  
TAAGAAGAGAAAAACATTAAAAAATGACAAGGAAGTTAATGGAAGTCGGCAATGTGATGG  
TGTTTGAGGTGGAGCCTTCAGAAGGTAATTAATGCCCTTGTAAGAAGAGGCCAGAGAGC  
TTGCGCACCTTCTTCTGCCATGTGAGGAGCCAAGAAGCCNGCTGTCTGCAACCTGCAA  
GAGGACCCTCACTAGAAGCTAGCCATACTGGCCTCCTCATCTTGCTTTCCAACCTCCAG  
AACTGTGAGAAGTATATGTTTGTGGTTAGTCAATGGTCTATGGTAATTTTTTTATAGCA  
GTCCAGCCAAGACAGTGCCTCATTTACTACATACCATTTATATTATTATATAG

Sequence 3362

ATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAAGAAACAGCTTCAATCCTT  
TTGGGGAATGGCAGGGTTTTGCAGAATATGTGTTCCAAATTTGGGGTCATAGCAAAACCC  
CTTTATAAGCAACAAGGGGGCCAGAAAATGAGTCAATGGAGTGGGCCCTANAAATGAGG  
GGAAACTTTGTCAAGTTAAACAGGCTCTTAACAAAGCTCCCCTCTTGCCATCCCAAAC  
TTCATTAAGCATTTTTCTTGTATATAGCAGGAAAAAAGGGCATAACTGTGGGAATACT  
AACCANAAATTGGGATCAGAACCCATACCAACCATCTACTTTTCAAAGAAATTGAACAG  
AGTAGCCTCACAGTGACCAAGCTGCCTGCAGGCAATAGCAGCCACTGTTATTTTAGTGGA  
AGAAGCCACTAAATCACCCCTGG

Sequence 3363

CCGCGGTGGCGGCCGCCCGGGCAGGTACCAAAGAACAAACGGAAGCCTAAAGATGGACCA  
CAAACCTTTGGATATCCAGGATAACTGAGTTAAAAACCTACCACACGGTTAATAAAATAA  
TGATGTCCACTGAGTCCATGACCACAAAGCAAATCACCAGCAGCAGGATGGCATGGGCGG  
CCCTTTTCGCTGGGGAGGGACTGGAGCAGAGGCTGGGGCTGTGAAGGTGATGGGATCACC  
TCTGATGGTTAAACAAGAGTACCT

Sequence 3364

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACATGGTTCTTCTCATAAAA  
GTGGTAATTCCTTAATGTGTTTCTTTTACCCTTTTTCTTCTTGGAAAGGGGATTTT  
AAGTAAAGAACTGAAGTAATGGAAAGAGTAAGCTAGAAGAATATCTGGGGAAAAAGCCCC  
CAGACACATGGAAGTCTAAGTGCCAGAAGGTGTGCCTGGGAATCTTTAAGCAGTAGGG  
GTAGGGTAAGGGAATAGCANCAAGTTCAGTGTGCTTGAANCAGAGCAAAGACATAGNAA  
NCAGAAAGTTTAAGCAGGAGAGGTAACATGCCAGATGGTTACTGCCTTCAGTTATTAGGAN  
GGACCTCTGCACATACTCAGAGTGAATGGGGAGGCAATCAGAAGGGCTGGGGCAGAAGG

Table 1

AATGACCCAATTTGACTTATGTTTAAATACATNCACTTGAGTTTAAGAATTGACAAAAG  
GGGAAGTTTTTAAAAACCCAGGACTATCAATTCCAAGTCTATGACACTCATCTAGACTAC  
AGATGACGGTGGCTCAAATGTACCTGCCCCG

Sequence 3365

CCGCGGTGGCGGCCCCGCGGGCAGGTACGCGGGGGTAGATGGAAGGAAGAACTTGTGTG  
CTTAGACCTGACGCTGGGAGGAGATGCTGCCACCTAGGTTACTTGTAGGACCCTATACGG  
CAACCTCCTTTGCCAGGAACATTTATAAACATCCTGCAGGAAAATGAGTCTATATGTCA  
GAATACACATTTCCACCTTGCCCAACAGTAGAAAAACATAAGAAGAGAAAAACATTTAA  
AAATGACAAGGAAGTTAATGGAAGTCAGCAATGTGATGGTGTGGAGGTGGAGCCTTCA  
GAAGGTAATTAATGCCCTTGTAAAGAGAGGCCAGAGAGCTTGCACACCTTCTTCTGCCA  
TGTGAGGAGCCAAGAAGCCCGACTGTCTGCAACCTGCAAAGAGGACCCTCACTAGAAGCT  
AGCCATACTGGCATCCTCATCTTGGCTTTCCAACCTCCAGAAGTGTGAGAAGTATATGTT  
TGTGGTTTAAATCAATGGTCTATGGTAATTTTTT

Sequence 3366

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGGGCAGGTACGCGGGGGGGAGA  
CCATTGCTCTATAGCAAGACCAGACTTTGCCCTTCTCCTCTCAGCCTACTCAACGTGAA  
TATAATGAGGATGAAGACCTTTGTAATGACCTTTCCACATAATGAATAGCCATTGGGA  
GACACACTTCTGAACACCACCCTGGAAAATCACACATGCTGAAATGGGAGAGTTCCTG  
ACCCCTTGCAGGATATGTGACAGGAGTGTGGCTCATCTGTTGAGCTGGAGTGCATACTC  
AAACCCCTTATGAGACAAGGAGTATGCAGACAGAAGGTGCAGGAAGTGGGGTGAGTACCT

0

Sequence 3367

NGGCGAATTGGAGCTTNCCGCGGTGGCGGCCCGGGCAGGTACCACACACACACAGGC  
ACACGCAGGCACNCGCAGGCACACANTCNGACACACACACACATAAACACACAGAGTT  
CACTAGTCCGAGTTACTGATTTCTTAGGATTCTCAAAGTGACAACACCCGGAACAAGGT  
AATTCATGTTAAACACAAGGGTTATATCAGTAAGAGATGGGATCCCCGAAGTAAACCGT  
GGAATTTGAATCAAGCTTCGAAGAGCTAAAAAAGAAATTGGAGTTTCAACATTCACCTT  
CTTGAATCCTTAAGAAATACAGAAGTTCAAATAGAAAAATTACAGTTTCAGGATCAAA  
AGTAGAAACATCTGAGATTAAGCCTACATTTTTAAAAAAGATATTGAAATTAAGTGGC  
TTGTAATACCAGCTTTTCAAACATCAATACCAGTATTGGCATTACCTAGATCAAACTTTT  
TCATCAAAGTTGAAAAAATAAGCATTTGGGGGATAGAAGGACCATCAAAAATGTCCAA  
TATTGAAATATTGGGTCTTTGCATAGTTNCATTAATAAATTTACCCTGCTCTCAATGGT  
TGGGTCANTTCTTCAATTCCAAGGCTTTANTTTGGNACAAGACTTTTTGCAT

Sequence 3368

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCCCCGAGCGGCCCCGCGGGCAGGTACGCG  
GGGGACGCTGGGAGGAGATGCTGCCACCTAGGTTACTTGTAGGACCCTATACGGCAACCT  
CCTTTGCCAGGAACATTTATAAACATCCTGCAGGAAAATGAGTCTATATGTCAGAATCA  
CATTTCCACCTTGCCCAACAGTAGAAAAACATAAGAAGAGAAAAACATTAATAAATGAC  
AAGGAAGTTAATGGAAGTCAGCAATGTGATGGTGTGGAGGTGGAGCCTTCAGAAGGTA  
ATTAATGCCCTTGTAAAGAGAGGCCAGAGAGCTTGCACACCTTCTTCTGCCATGTGAGG  
AGCCAAGAAGCCCGGCTGTCTGCAACCTGCAAGAGGACCCTCACTAGAAGCTAGCCATAC  
TGGCATCCTCATCTTGGCTTTCCAACCTCCAGAAGTGTGAGAAGTATATGTTTGTGGTTT  
AGTCAATGGTCTATGGTAATTTTTTATAGCAGTCCCAGCCCAAGACAGTGCCTCATTTA  
CTACATACCATTATATTATATAGGCTTCTTTTCAAGAAACCATGTTCAAAATAAGA  
GATAANATACTGAAACACATAACACCTTCTTAGTTTTTAAGTATACAAATATTTGAGAA  
AATAGTTTGGTTATTAATCTATTTAATCCAAGAAATGCANAATCATGTGGTTCTAA

Sequence 3369

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGGGCAGGTACTTTACTCACCTT  
CCTCTGACAGAAAAGGATGAAGTCAAGGGCCTGGTAGAGGCACCCTAAGAAAGGCGTCT

Table 1

GAGAGGACCAAAGAGAGTGACCAGCAAGCATTTTTGCAAGGCTGAGGAGCTGACAGCTT  
CATGAAAGGCTGGACCACCCAGTGGTGAGAAGCATCATCTGGGTACCTTGTGCTGCCAT  
AAAACACACCACAGACTTGGTGACTTAAACCACAGATATTTATCTTCTACAATCCTGGA  
GGCTGGAAGTCTGCAATCACGGTGCCAGCATGGTCAGGTTCTGGTGAGGGCCTCTTTCCT  
TCTCACTGTGTGCTCTTCTTGTGCATGGAGAGAGAGAGCATGAACAAGCCCTCTACTGT  
CCCTCTTAGAAGGGCACTAATCCATAATAAGGCATCCACCCTCCTGACCTCGGCTAACC  
CCAGTTAAGTACCTCGGCCGCTCTAGAAGTAGTG

Sequence 3370

CCGCGGTGGCGGCCGAGGTACTTTGCCAAGCAGTAAAGGATCCAGGAGATAGCACTGGAT  
GTGGTGTCTATGTCCTGCAAACATGAACGTTTTCACTTCAGCCTGGAGATCTGCTTCAGAG  
AAATCTTTGGTGTTCGCTTTTGGCACTCAAAAGTATGTCCAGAAAATCCCAGCGCCTT  
TTCTGAGTAGTATCTTGTTTTAGCTTATCCTTAAGAGACTCCTCCGGTCTGGATTACT  
TTCTCTGTGAAGTATGAAGTCTTGGTTAAATTTAGAAAAGATTTGGCCTTGAGAGCTG  
AATTTGAAAACCAAGTCGTTGTGATGTAGAAAATTGTTATGCGCTGGTTGGAGATTTTT  
TGCTAAGGTTGAACACTGCTTTCAGGTATTGAGTCCAGGGTACCTGCCCCGGCCGGGCCG  
CT

Sequence 3371

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTGAGTAGTCT  
GTAACCAAAATAATTCATTTGGCACATTTAAGGCATCTGCCCAATAAAATACCTTGTA  
TAAATCTTTAGGAATTATGAATACTACAAGGAGAAAAATGACAGAAAGAAGCTGACTTG  
GGGGGAATGGGAGTTGTTTTTAATAACCTTTTTACCACCCTAGACTTCTGGCCAATCAA  
TTGAATCATACCTTGGGAAGGGAAACTGCCTGATGCAGCAGCTGAGCCAAAGTCAGCAA  
TCCTCCGAATAAATCAGCTGATCCTCCTAGAAGTTAAGAAAAAGTTAAACTGTTAGA  
TAGAGAAAAATTGTAATAATTTCTGGAGGCCATTTTAGTGCCACACAAAAAGTACCT

Sequence 3372

TCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTCTCTTACTGATAGTANG  
GATATTTCTGCTTTAGTTATTGTCACCTTAAATATATTTTCAATGTTGAAATCCTCACAG  
CATGTTTGATGAAATCTAGTTTTCAAATTTTCTTAGGTATATTTCTGTCACGTTGGCATG  
ATAACAAATGCAATAACCCAAAAGACCCAAAAGCTAGTGAATCCCTTTTGCAATCCAA  
GCATGAGGATTCATCTTCATGTTGACAGTGCGTGAATGTTGCGTAGGCTTTGTCAAGCTT  
GCATACAATAAATTATATATGTCCCTTTTCTTTTAGGGTCTCCTGTTAAAGGATGGTCTT  
CTGAAGGCTAACTGCGGAATGAAAGTTTCTATTCCAATAAGCCTTAGAATTGATGGAC  
ATGCAAACTTTCAAAGCAGAGCCTCCCGAGAAGC

Sequence 3373

CCGCGGTGGCGGCCGAGGTACTCACCCAGTTCCTGCACCTTCTGTCTGCATACTCCTTG  
TCTCATAAGGGGTTTGAGTATGCACTCCAGCTGAACAGATGAGCCACACTCCTGTCACAT  
ATCCTGCAAGGGGGTCAAGGAACTCTCCCATTTAGCATGTGTGATTTTCCAGTGGTGGT  
GTTCAGAAGTGTGTCTCCAATGGCTATTCAATTATGTGGGAAAAGGTCATTACAAAGGTC  
TTCATCCTCATTATATTCACGTTGAGTAGGCTGAGAGGAGGAAGGGCAAAGTCTGGTCTT  
GCTATAGAGCAATGGTCTCCCCCGCGTACCTGCCCG

Sequence 3374

CCGCGGTGGCGGCCGCCCGGGCAGGTACTTGCCCACTTTCCTGAGCCAAGCACTTCATTA  
TCTTCTTGTCTGTGAGTCCTAATAGATATATTTAGAAACACTTCTATGAAATATGGAAT  
CCAGGCTTAACCAGCTGTTTGAATCACAACCCACAACCACTTGTGCTGTGTGCTCAC  
ACACACACACACTGACACATGCTTGCTATACATACATACACACAGTTCCATCTTTTT  
TTTTTTTTTTGAGACAGAGTCTTGCTCTTTGCCCCAGGCTGGAGTACACTTGGCTCACT  
GCAACCTCGCCTCCAGGTTCAAGCAATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGA  
CTACAGGCACGTNCCACTACACCCGGCTAATTTTTGTATTTTT

Sequence 3375

Table 1

CCGCGGTGGCGGCCGCCGGGCAGGTACGCGGGCTTCCACCATGTGAGGGACACAGCAAG  
AAGGGGCTGACTCTGAACCAGGAAGCTGTGCTGTGCTCACCAGACACTTTGATCTTGGAC  
TTCTCAGCCTCCAGAACTGTGAGAAAGAGATTTCTATTTTATAAGCCACCCAGTAGATG  
GTACTTTGTTACAGCAGCCTGAAAGGACTAAGACACCGACCTAGTCTCCCTGATGAAAAA  
GTTTCTCTCAGACTTCTACCCTTTCCAATGTGGCCAAAGCTTTTCATTCCGAAGAAGTTT  
CCTTTCTGAGAACGCTCATTGTGTCGTTTGGCTTTCCCCGTCTCTGCTTGACACATGAAC  
CAAAACAGAGGCAGCCAAAGCAGGGAAAAAAAATCCTAGGATCAGAGTCCACTCTATGC  
CCTTTTGAGCTTCAAAAGGAGAAAGAGACAAAAGCCA

Sequence 3376

CGCCCGGGCAGGTACGCGGGGGAACCTTGTGTGCTTAGACCTGACGCTGGNANGAGATGCT  
GCCACCTANGTTACTTGTAGGACCCNNTACTGTAANNCTCTTTGCCAGGAACCTATTTATA  
AACATCCTGCAGGAAAATGAGTCTATATGTCAGAAATACACATTTCCCACCTTGCCCAACA  
GTAGAAAAACATAAGAAGAGAAAAACATTAAAAATGACAAGGAAGTTAATGGAAGTCAG  
CAATGTGATGGTGTGTTGGAGGTGGAGCCTTCANAAGGTAATTAATGCCCTTGTAAGAAGA  
GGCCAGAGAGCTTGCGCACCTTCTTCTGCCATGTGAGGAGCCANAAGCCGGCTGTCTGC  
AACCTGCAAGAGGACCCTCACTAGAAAGCTAGCCATACTGGCATCCTCATCTTGGCTTTCC  
AACTTCCAGAACTGTGAGAAGTATATGTTTGTGGTTTAATCAATGGTCTATGGTAATTTT  
TTTATAGCAAGTCCCACCAAGACAGNGCCTCATTTACTACATCCATTTATATTATATAT  
AGGCTCCTTTCAAAAACCCATGTTCAAATTAGAGATAAGATCTGGAACACTTACACCTTC  
CTAGTTTTAGTATACAATATTGAGAAATAGTTGGTATAACTATCTATCCANAATGCAAT  
CTGTGTTCTAATTTTATTATAATGCAAATGAGAACTTACACATCTAATTTACTGCCAAAA  
AAA

Sequence 3377

AGGTACGCGGGGAAAGCTTGGTGAAAAAACACCTGATGAGGCTGCATCCTTGGTGGAGG  
GAACATCTGACAAAATTCAATGTTTGGAGAAAGCGACATCTGGAAAGTTGGAACAGTCAG  
CAGAAGAAACACCTAGGGAAATTACGAGTCCTGCAAAAGAAACATCTGAGAAATTTACGT  
GGCCAGCAAAAGGAAGACCTAGGAAGATCGCATGGGAGAAAAAAGAGACACACCTAGGG  
AAATTATGAGTCCCGCAAAAGAAACATNTGAGAAATTTACGTGGGCAGCAAAAGGAAGAC  
CTAGGGAAGATCGCATGGGAGAAAAAAGAAACACCTGTAAAGACTGGATGCGT

Sequence 3378

CCGCGGTGGCGGCCGAGGACTTTTTTTTTTTTTCTTTTTTTTTTTTTTGGATTGTTGATC  
ACACCTTTATCTTGCTTAATATGTGTCCAGATTCACAAAAATATCTACATCCTTCTGATG  
TATCATTTTAGGGTATGATCTCAGTAATCAGGCAGTGAATTTTCTATAGATTTGTAGGAA  
GTCTAGGACAAGATGCATATTGTTGGCATGCTGTATACTTCANAATGCTTAGTTTATTAA  
TCAACAAAGGAGTCATATCTTTTGTCACTAATGTCCTCAAAACAATCCCAACCAATCTT  
ACCGCTAAAATTGATTTTATTATTTTATTTTATTT

Sequence 3379

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGCTTAGACCT  
GACGCTGGGAGGAGATGCTGCCACCTAGGTTACTTGTAGGACCCTATACGGCAACCTCCT  
TTGCCAGGAACCTTTATAAACATCCTGCAGGAAAATGAGTCAAGGAAGCTTTCTTTTG  
AGCTATTTACAGCTTTTAGCAATTGAGTAAAGTATACTCCTGTGAACAAAATTTGGAACA  
TATTTGTTTCTCTCTAACTGATTTCTCCAGAATTTGGAAGTAACTTAACCAGGAACCTCT  
CTTGGGGTGTGGATCGAGACCCCTTTCTGGTAACGAGAGCACAGCTTGGTTTTATACATT  
TTAAGGAGACATGAGACATCAATCAACGTATNTAAGATGAACATTTTGATCTGAAAAGGC  
CTTTTTTA

Sequence 3380

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTT  
TTTTTGCCTGGAGAGAGAGAGATGTTTTATTTTTGCCAAAGCATGTGAGAGTAAGTAGCA  
AACATCATGACACTTCACCCCTCAAATATTTTCCCACGTATCACTTAAGAACAAGGGCAT

Table 1

TCATTCTGTTACATGACCACAATACAATCAGCACAGATAGATATTAACATTGAGACAATG  
CTCTGATGTATTGGTATCTACTATGCAGTTCATAATCAAATAAGGGTTTTGGTAACTTGG  
GATCCATAAATGGTCTGCAAGGTCAGCCCCTGTAGACCTGCACTTAGTGGGTGCCA

Sequence 3381

AGGTACACCCCCTTTTTACCTTGGACAGTTTTTCAGAGAGAAGCCATAGCTGCCTCCTTCC  
TTCACGAGATAGCAGAGCCGGGGCTGGGTCCAAGTTTGCACACCTCCATTATCACAGGG  
GAAAGTATATTACTCAAACCTTGCTCCTTCTGACTTTGACCCAACTCTTCAAGNTC  
CACCCGTGTTTTACTGCCTTTCTCATAGGAAATCTCCCATCCAGTAACCTAGTTAAAA  
GCTCACNTGGCATTCCCCACTTCTTTCTNGACCAGGATCCACNAACCTGCCATAATGTN  
TCTNTCTTTTGNTECCAAAAAGNACACCAATTTGTATCCTTANAGAAACCTCTTGCTTTC  
CATTCTTNGAAAGGCCAGCCCCCTTCTTCTGCNTGGGCCTACACTTTCTCAAACCCAACCC  
CGGGACCAAGGGTGGGCCCCCTCGGGTGT

Sequence 3382

AGGTACAATGCCAGGAAGATGAATGTGCGTTAATGTTGCTGGAACATGGCACTGATCCAA  
ACATTCCAGATGAGTATGGAAATACCACTCTACACTACGCTATCTACAATGAAGATAAAT  
TAATGGCCAAAGCACTGCTCTTATACGGTGCTGATATCGAATCAAAAAACAAGCATGGCC  
TTACCACCACNTGCCTACTTGNGTGTACCTGCCCCGGCGGGCGCTCCTAGNAACCTAGT  
TGCGATCCCCCCCCGGGGCTGCATGGGAATTCGATATCAANGCTTATCGGATTACCCGTTT  
GACCTNTGAAGGGGGNNGGGNCCCCGGTTACCCAAGCCTTTTNGNTTCCCTTTTTTAGN  
TNGAAGGGGGTTTAAATNTGCNCGCCGCTTTGGGGCCGTTAAAT

Sequence 3383

CCGGGCAGGTACCACCACGCCTAGATAACTTTTTGTATTTTAAATAGAGACAGAGTTTCA  
CCACGTTGGCCAGGCTGGTCTCAAACCTCTGACCTCAAGTGATCTGCCTGCCTGGGCCTC  
CCAAAGTGCTGGGATTACAGGCATAAGCCAGCACACCTGGCCGTTAACTAGTTATTTTA  
ATCATGCTACACAAAGAAGACATTTCTCAAAGGAAATATATAAAGGGAAACACTGTTGA  
AATAAATGGAAAGCTAAAAGTCTCAGCATAGAAGCTATAAAAAAGAAACAAGTGGAATTG  
TAGAACTGAAAATACAATAACAAAATTTACTGGGAAGGTCTCAACACAATGAAGATGACT  
GAGGGAAGAGTCAGTAAATTTGAAG

Sequence 3384

CCGCGGTGGCGGCCCGCCCGGGCAGGTACGCGGGGTCAAGTTACATGAAAATCCCCTTTGGT  
CACTGAGATCCAAACCTTGCCGGTGTGTCATTGAGCCAGGTCAAGTCTTCGATATGACTG  
TGCTCCTACCCTCAACCCAGCCTTTGGCGTTTGTGCCTTAGTGACTGCAGAAGCCTCTTA  
GTCTTCCCATCTCCACCTTGCTCTATACCCCTGCCTTGACCCTAGCTGGCCAATAGTAAA  
AATCCCCTCCCAAAATATTTTAAAGTAAACAAACAATAACAAATAACGTTTAAAAA  
AAAAAAAAAAAAAAAAAGTCCCTCGGCCGCTCTANAACCTAGGTGGATCCCCGGGGCTGCA  
GGGAATTCG

Sequence 3385

CCGCGGTGGCGGCCCGCCCGGGCAGGTACTCACAGTTGAGATAGGATTAAACCCCAATTTT  
AAAGCCCCTTACAGAGTTCCACTTACCAGGTTATTTTCAGCCGGCAACCAGGAAGTAGACT  
GAATGCAATCCTCCACATCCAAGGTCCCCCGCGTACCT

Sequence 3386

CGGCCGCCCCGGGCAGGTACACTAACTGCAGTGCCTCATTTCTAATTTCCATATAAGCTG  
CCCCTCTGACCTAGAGCATCTTTGTTTTCCACCTACCATAACCTTTAAAGCAAGGGTCCC  
TAACCCCGGGGCCACAGACCCTGTTAGGAACCAGGTTGCACAGCAGGAAGTAAAGTGGTG  
GGCAAGTGAGCATTCCCGCGTACCT

Sequence 3387

CCGGGCAGGTACCGGGCAGCTTGACCTCCATTGCTTTTGGCTTTTGTCTCTTTCTCCTTT  
TGAAGCTCAAAAGGGCATAGAGTGAGCTCTGATCCTAGGATTTTTTTTTCCCTGCTTTGG  
CTGCCTCTGTTTTGGTTCATGTGTCAAGCAGAGACGGGGAAAGCCAAACGACACAATGAG



Table 1

GCTCTCTCCACTTTCTTCTTGGGAGGAGGGAAGATTTACCTAATGGGTAAATTTGGGCAA  
AGCACATTGAGTGTGCTTGTGCTCTGAGTCTCTTTGCAAACATGTGTCTGCCACAG  
TGACATGAGTTTGCCGTTGACTGNCATGTCTGCAGGAAGCTGCCTGCTCTGTGGCCATG  
TCAAGCAATTCTTTCTTTCAACTGCA

Sequence 3395

TNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGTAATGAA  
AATTGAGGTTCAATTCTATGAAAAATCTCCCTTCTCCCTTCCCTTATTGCCTGTCTTG  
GCAATGGCCAGTAGAGTAGTTATTTAAGGGATTTTGTGTTTTTGTGTTTTTGTGTTTTT  
TGGTAGGGGAGGTGGGGAATTTCTGGGTTTGTCTTTNTTTTAATGTATATAAAAGTTTGC  
TAGTTGTTAGTTATTGNTGTTCTTTCACTCTCAACACAGTTTTTGTGTTGGAAGTTGTAC  
GAATCAAATGTAATTGAGGGGACCCATAC

Sequence 3396

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAAAATC  
CCCAGAGCCACATAGACGGGGTGGTAGTGCGAACCATAGCAATATTGGCATAGGTGCCA  
ATCTGTAGCTCTTCCAGAGACTTGGACATGAACTCTGGCTTGGGGAACCTAGTGATAAAC  
AATTGAGGAACCTCAGAATGCGCTTGTGGGTGAGGATGTACATGCCGGCTTCCCTTAAG  
TTGATTAGATGGGAAACCAACACCGTCTTTCAAGTGTGAGGCTGTGCCATGCTCCCTCA  
GGGAGGAGGGGCGCTGGGTCTGACCAGGTCTGCCTCTGCCCTCACCAGCTGGCAGACGTG  
AACTGGAGAACAGCCACCAGAAAGGCTGGTGGTTGGGCAAGCTGCTTCACCGACACAAGT  
TGCTTG

Sequence 3397

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTCAGTT  
GTAAATGCAGAAATCAGGCCATCTTCTGTGTCAATCATGGTGGGAGCTGCAGACCGGAGC  
TGGAACTATTCAGCCATCTTGAACGGGAGCCCTCTAGGTGATATATTTTGAAGTCAGAA  
ATGGAAAAATGTTGTCCAGAGTTTCAGGGGAAGAGGATATTGGGTTCTTTTCTCTGAGGTCA  
CTGTTTCAAAACGTTACAGAAGAAAAGGCTAATATTGCTTCAGCCCTTGCCAGATCCCA  
CAGAAGGTGAGTAAACCTCCATTCTGATAAGCAGCTATTACATAGTGAGAAAGTATG  
GCTTTTGGCCCTACTCAGTCTTGCTGTTATTGGAACAACTCTCTTTGATTGTCCGTTTC

0

Sequence 3398

CGCGGTGGCGGCCCGAGGTACCAGGTGAACAAGGTTTACCAGAAAGCAGTTGAGACAAGA  
AAATAAGAGCTCANGATGAGGGAAAAAGAAAGATTGAGAGAAATTTGTGCCCCCAACCAT  
TTNCTCATGACTCTAAGTAAAGAACCACGCTCTNTCCAGGGCAGGGTCTTGAAAGCTCAA  
CTCTCTTAATTTGCCTCCACCTTCAGGGTTATTACCCTCACTTTTACACCAATTATGNAA  
TTTATTAACCTGGGAAAAAGGAAAGTTTGGGGGACCACCATGGTTATTTTTGGGGTGG  
AATNTACCATTTNTTAAACCAACCTTTANGGGANAAAAGGTTTGCCTAATTTTGAACCC  
TTNTTTTAATTGGANTTTTTTTTGGGGGGGGGAGGTTAAAGNAANTTAATTTTTTGGT  
NGGATTGGCCAAAAATAAAAAATTATCCCTTTTTTAAATTTTGAATTNCGGACNTTTGG  
NCCAAAAATTTTAAAG

Sequence 3399

ATTNGCGAATTGGAGCTCCCCGCTGTGGCGGCCGAGGTACTTTACAGTTTATATGATCTC  
ATTTGATTCTTAACATGAGCCTGTGAGTGAAAAATTCCTTCCCCTCTTCTACAGATTAGG  
ACGTTGAGATTGAGGGAGGTTGAGGGGATTGAGGGAAAGTCAAGTGGCACCTGGAGTCC  
CGTGGCTAATTTGAGGCCCGGAGGGGATTTCGAACCCAGGATTTGTCTTCTTATGCCT  
GGGCTTCTGCTCTCTGGGGCATGGTCTTCCCCCTAGCTTTCCCATTCACACTTTAGCCT  
AGGGGTCTACCTTTATTAAGTCCAGTGCCTCACTGCTTTTCTCCCCCAAAGACAAA  
AAAAAGTGTTTTGCTTTTGTGTTTTGTTTTTATGGGCAGAGACCTGGAATTTGAGCTTG  
AGAATTTGTGCCATATGATAAAATAAATCAACANNATGGCTTTTTCCCCAAAAA  
A



Table 1

## Sequence 3400

ATCCGGCGAATTGTTCTCCCCGCGGCGGCGGCCGCCCGGNCAGGTACATCTGANCCACCG  
NCATCTGTAGTCTATTTNAGTGTCATAGACTTGGAATNGATAGTCCTGGTTTTAAAAAC  
TTCCCTTTTTGTCAATTCCTAACTCAGTGGATGTATTTAAACATAAGTCAAATTGTGTC  
ATTCCTCTGCCCCANCCCTTCTGATTGCCTCCCATTTCACTNTGAGTATTGTGCCAAAGT  
TCCTCCTAATAACTGAAAGGCANTAAACCATCTGGCATGTAACCTCTCCTGCTTAACT  
TCTGTTTCTTATGTCTTTTGCTCTGTTTCAGCCACACTGAACTTGTGCTATTCCTTAC  
CTACCCTACATGCTTAAAGATTCCAGGCACACCTNTGCACTTAGCAGTTTCCATGTTGTC  
TGGGATGCTTTTTTCCCANATATTNTCTAGCTTTACTCTTTCCA

## Sequence 3401

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTGCC  
GATGGGGAGGGGGATACAGAGGAAGATGATTACGATGACATTATTGAGCCCCCTTCTCTCC  
CTTGACCAAGCTTCTCACTGTGAGCTAGGGCCTGCACCCAGCCTGGGTGAGGCCTCTCAC  
AGTGACTCCGAAATGACATCACAGCGATTTTCGTCACTTGATGAACAAGCAAACTTCAT  
AAGACTATGTCTCAAGGAGAGATTACCAAGTTGGCAGTGAGACAGAAGGCTTCGGATTCA  
GATATAAGACCTCAGAGAGCTAAGATGAGATTCTGGGCCAAAGGGAAACAAGGGGAGAAG  
AAGACTACCATGAGTGAAACCTA

## Sequence 3402

GNGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTGAAGAAGACATCATT  
CCTGTATATGCCCCCTTCTCAGTTCCTCAATGGACATTGGCATTGATGAGCCCATAA  
GTACATGATAAGCCTACAAGGACAATAGTGAGTTTATTTTTATGTAATGATTTAGAA  
CATGGGATAATATTCCAGAGNGATGGAGGTAAACTATTACATTTCCATATTCCAAAC  
TACTTCAAGAATCACTAGAGTGCAAGTTATAACTCTAAATGCTGAATGGAGAAATCAT  
CTGTCCCAAGAACTACACCCATATGACTTTCCAATAAATCTATCTCAAAAGGCCTACCAT  
TTAACAACAACAGCAACAACAAACTTTAAAGAACCCTAAATGGAAGTTTTGTATAAGT  
TGGGGGTCTTTTTT

## Sequence 3403

GGCNAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAGAGCTTTTGGTTTGCT  
GAGGTTTGTGAGATTTTCCAGCTCAGGGCCCAGCCAGCTGGCAGGAAGCANGACAGAGGT  
CACTTGAATTCAGACCACATGTCCCTGTTAAATACATTAGCTTTTAAATCAATCTTTGTT  
CAAAGTCCAATGAGTTGCAAGCCTAATGCTCACCTGCAGAGACAGAATTCCTGAGTGAAC  
GAACAGAGCAGCTCCTCTTCCATCTCCAGAAATGACCTCCACCTTCAACCCCCGAGAATG  
TAAACTGTCCAAGCAAGAAGGGCAAAA

## Sequence 3404

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGTGGATTTGCCAGATC  
ATAGCGAGACTGCTTCTTTAAGTGGGACCCTGATACATTTCTGCTCACTGGGTGAAACCT  
CCCAGCCAGGCCCCCAGCCATGTCCACCTGCACTTATTAGGGACAGAGCTCTGATCTCT  
CCCTGGGAAGGAGTGCCTGGGGGCCAGGGGAGGGTGGCCACCTGGGTTGGTTGGATGACT  
CAGTTCCTTCCAACCAACCTCCTCCCCAACAGGGGCAGAGGCAGTTCCTCCACCATGACACG  
GTTCCCCCACCACAATACAGCTCTTTCTTGAGGCATGGACAGACTGCTCCTTTAAGTGA  
TTTACTCCTTCTCGTGGATTGGTTTCTCCCGGCCAGGTCTCCAGTCGGGGCTTCCAGC  
CACCTTGACCTGTATTCTGTGG

## Sequence 3405

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTNTTTTTTTTTT  
TTTTTTTTTTGGCCNGGAGAGAGAGAGATGTTTTATTTTTGCCAAAGCATGTGAGAGTAA  
GTAGCAAACATCATGACACTTCACCCCTCAAATATTTTCCACGTATCACTTAANAACAA  
GGGCATTCACTTCTGTTACATGACCACAATAACATTGAGCCAGATANGATNTTTAATTA  
GAGACAAATGCTCTGATGTATTGGTATCTACTATGCAGTTCATAATCAAATAAGGGTTTTG  
GTAACCTGGGATCCATAAATGGTCTGCAAGGTCAGCCTNTGTANACCTGCACTTAGTGGG

Table 1

TGCCATTTCCCTGTCTCAGGTGCCTGCTCTACTGGTGATATTTTTCACTGGCTCTGTTG  
CTCACTTANA

Sequence 3406

CTACTATAGGGCGAATTGGANCTCCCCGCGGTGGCGGCCGAGGTACCTTGGTTTTCAGGT  
TATCTGACAAAGGCAGCTTTGATTGGGACATGGAGGCATGGGCAGGTTCTCCTTTCTTTG  
GAAACACATCCATGCTGGGATGCACAGTTCTTTCTAAGGATTGTGTTTACTCCTGACT  
GCAACGCTTTGGCCACTGTTTGGAGCAGTTTGGGTCTGAAGGTCATTAAGGATCTGCTTG  
CATCTTGTTTCATGTCTCCGTGACAGACTGCAGACCATGTTAGAAGAGAAGGAAGGTTT  
GTGGATCAAGAGGGTTGACATTAGGTTTGGTGAGATGAGTTGCTTGGCACAGATCAGCAG  
AACAGGACCCTGGTGATAAGGCATTCTGGGCTTTGCTAACCCTTATCATCTCCATTAT  
TTCTCTTTCTTAACTAAAGTAAAGACCCCCGAAAGTGCACTTTTTGGAAGTCTGGGTTT

Sequence 3407

NACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCAGCGGCCGCCGGGCAGGTACGC  
GGGATTGAGAGCAGGTAAATTTTTTAATGGAATATGCAAAGACCAATATTTCAATATTG  
GACATTTTGATGGTCCTTCTATCCCCAATGCTTTATTTTTTCACTTTGATGAAAAGAT  
TTGATCTAGATGAGATACTCCCATCAGAATCCCAACCAAGGGACTATGAAGAAAGTTC  
TTGGGATTCTGAGAGTCTCTGTGAGACTGTTTCACAGAAGGATGTGTGTTTACCCAAGGC  
TACACATCAAAAAGAAATAGATAAAATAATGAAAAATTAGAAGGCTCCTGTTAAAGA  
TGGTCTTCTGAAGGCTAACTGCGGAATGAAAGTTTCTATTCCAACCTAAAGCCTTAGAATT  
GATGGGACATGCAAACCTTTCAAAGGCAGNAGCCCTCCCGNAGAANGCCCATCTGCCCTT

Sequence 3408

GCGAATTGNTCTCCCCGCGGCGGCGGCCGAGGTACTNTNTTTTTTTTTTTTTTTTTTTTT  
TTTCGGAGGATTTTTGAAATAGAGGACTGGGAATTTGAGCAAATTTGAGGAATCTTAAA  
TTGCTATTAGGACACCAATATGACGCAGCAATCAATCATTATTTTCTAGGACTCTGGTTA  
CCAAAGTTATAGACAGCGAGCCAATTCTCCATTATTTTGGCAAAAGATAATGCAAATTTA  
TGTTACTGTTTGCTAGTTGATTGATTCACTGCCTAAAATAAAGTATTCTCTGTTTT  
AAAAATCCATTTTGAAGCCACACNCAACAAAAATCATTAGTTAGTTGAATTTGCTTTA  
TAATTAGACTATGGGNGAAGACACCAGATATTTTAAAAAGCAATCCAAATGACTGAGTTT  
AGAAA

Sequence 3409

CCGCGGTGGCGGCCGAGGTACCATTTGTCAGGGAGCTCTGAAAAGCATCCTATGTCGCAC  
CCCGGGAGAGTTTTACCACAACACTCTGAGCTTCTCAAGGTAAGGGCAGCTCCTGCCCT  
CCACTTTGGGAGTTTGGGAGTCAGAGAATGCCGCCCGTGAATAGGAATAATTGGTTCT  
CCTTTCTGGAGCCATGTTCCAATATTAGGAGACGGCATCGGTGTAAGCATCCACACACAC  
GTTTCTCACTTCCGGCCATTCCCTCTGCCCCTGGTGAAAAGCTTCAAGTAATAGAGCTTT  
TTCTTTTTCACTCCTTATGCCAGAACATCACACCTACCGTTCCCACTCTTCAATGAGGGG  
TCTATTTTTAATGACTTTGGCTTTTTCTTTTACTTAAATTTGA

Sequence 3410

ATCCGGCGAATTGTTTTCTGACAGCGGCGGCGGCCGAGGTACATGTTCTTGGCATCCTTT  
CCNTTAAAGTAAACANNTTTAAAGCCACACAGACTTTAACACATTATACCTTAATTCCAT  
CAACAGTGTCCTGAGACTGAGGATAGATAAAATACTTCAGGTCAAAGCAGAGCCTGTGGA  
ATTTTAATTTAAACAATAGATGAGAAAATGTCTTTTGTGGAAAAGAGACATTCAAAAAA  
GATGTTAAATATACCCTGTTTATTATGAATTATTTGGGAACGTAAACATTACCTTTTAT  
CTTACAGACCAGACTGACAAGGCCACCGAGTATGTGCCCCACCTGCTGTGAGCCATCAGC  
TTGCACAGGTACCTGCCCC

Sequence 3411

TATAGGGCGAATTGGAGCTNCCCGCGGTGGCGGCCGCCGGGCAGGTACATACAGGTAAC  
GCTTCTGCCCTCCCAGCTGCTGTNTGGTTAGTGGAACCTAACAAATTTCTTGATGGAAAT  
GAATAAGGTAATCCAAAAAGAAGGCTCTTTTAGATGAAAAACATGGATAGATTATTAAG

Table 1

CGCCAAGTTTTCTCTTCAACCTACTGCTCACCAGTGCTCCCTCCTCAGCTCCAAGGCTGT  
GGAGGGCTCATGAAGTCACAATGTTCTACTGAGAATTTAGCTTTTTTTTTTTTGGAGTG  
GGTATACCATTTTGTAAATCCACTTGATAATGGCATCTGATTATTTGATCATGACATCAT  
TATTTGTATACAATGCAGCAAGAATTTGTTTTTAATGTAGGCTTTTAAATGGGCTTTGA  
TGGAACCTGGTTCATAGAAGGAATCCCAGATAAGGCTTTTTAAAAG

Sequence 3412

AATTGTTNCTCCCCGCGNGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTT  
TGGAGGATTTNNAATANAGGACTGGGAATTTGAGCAAATTTGAGGAATCTTAANTNGC  
TATTANGACACCANTATGACGCAGCAATCAATCATTATNTCTAGGACTCTGGTTACCAA  
AGTTATAGACAGCGAGCCAAATCTCCATTATTTGGCAAAAGATAATGCAAATTTATGTT  
ACTGTTTGCTAGTCNGATTNGATNCACTGCCTAAAATAAACTGATTNCTTCTGNTTTAA  
AAATCCATTTTGAAGTNACACNCAACAAAAATCATTGAGTTAGTTGAATTTGCTTTATAA  
TTAGACTATGGGTGAAGACACCAGTATATTTTAAAAAGCAATCCAATGACTGAGTTTAG  
AAAATTAATGAGA

Sequence 3413

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAGACTGCGAGCG  
GAGAAGCGGAGTTTGCAGCCTCGGAATTTGGCTAGAGCGCCAGAGCCGAGTCAGCCATAAA  
GCTACGCGCTAGGCTCTTGGCCCTGACGTGAGGCGCGCAGAGATGGCGTAACGGGAATAG  
TTTTCAACGTCTATTTGAGCGGCCGCCCGGGCAGGTACACAGAGCTGAGGATGAAACAC  
ACCCAGAGTGGACAGAGCACATCTCCACTGGTGATAGATTATACTTGTGAGTTGGTCAA  
ATGGCCTTTGTTTTCTCAAGCCTGATACCTCTGCTATTGATGACACCTGTATTCTGTCTG  
GGAAATACTAGTGAATGTTTCCAAAACCTTCAGTCAGAGCCACAAGGCGTATCTTGATGCA  
CTCACCACCATCAGCCATG

Sequence 3414

CCGCGGTGGCGGCCGAGGTACATTCCAACACTTTTTCATAGAATGGCTGTAAACATGCT  
CCCTATTTCTGCTTGACATGTTACATCACAGTGCTCTAAAAGCTCTGTGATGCGTATTAT  
ACTCTCAGCATCCTGGATAATAGAGTTCATCTCCAGTTCAAATCTCCACCAACCAGCTT  
TATCTTGTTCCTGCAAAATCATGGAGGTTTGGGAAGTTCTTTAGACCCATTCTCGTAT  
GGAGGTTTGTTCCTTTCTTTTCTTTCCGCGGAGACCTGCCTCCTACTCCACCATCACA  
TGGAACCCACCACTGCTTCTCCGAAGCTCGCTCTCCCCGCGTACCTGCCCCGGCGGCCG  
CTCTA

Sequence 3415

CCGCGGTGGCGGCCGAGGTACACACAAAGACAAACCTGAACTTAATTTCAAGGAAAACCTT  
AAACCCATGCACAAATAATTGGTGAGCCTTCAATTTCCCTGACTTCAAGTTTCCATGTGAG  
GACTCATGCTCTCTCCACTTTCTTCTTGGGAGGAGGGAAGATTTACCTAATGGGTAAATT  
TGGGCAAAGCACATTGAGTGTGCTTGTGTTGGCTCTGAGTCTCTTTGCAAACATGTGTCTG  
CCCACAGTGACATGAGTTTGCCTTACTGTCTGCTGCTGAGGAAGCTGCCTGCTCCTGTG  
GCCATGTCAAGCAATTCTTTCTTTCAACTGCAACTGTGTGTAAGAGCTTAGTCTGAGAAG  
AAATGTTCAAGAAGCTCACTGTGGCTGCACATCTGAGCCATGTCTTCCCATTAANTTGTG  
ATGAGTCAGCAAT

Sequence 3416

ATCCGGCTAATTGGTTNTCCCCGCGGTNGCGGCCGAGGTACACACAAAGACAAACCTGAA  
CTTAATTTCAAGGAAATTTTAAACCCATGCACAAATAATTGGTGAGCCTTCATTTCCCTG  
ACTTCAAGTTTCCATGTGAGGACTCATGCTCTCTCCACTTTCTTCTTGGGAGGAGGGAAG  
ATTTACCTAATGGGTAAATTTTGGGCAAAGCACATTGAGTGTGCTTGTNNGGCTCTGAG  
TCTCTTTTGCAAACATGTGTCTGCCCACAGTGACATGAGTTTTCGTTGACTGTCTATGTC  
TTGCAGGAAGCTGCCTGCTCCTGTGGCCATGTCAAGCAATTTCTTTCTT

Sequence 3417

AGGTACTTTACTACCCTTCTCTGACAGAAAAGGATGAAGTCAAGGACCTGGTAGAGGC

Table 1

ACCACTAAGAAAGGCATCTGAAAGGACCAAAGAGAGTGACCAGCAAGCATTTTTTGAAG  
GCTGAGGAGCTGACAGCTTCCATGAAAGGCTGGACCACCCAGTGGTGAAAAGCATCATCT  
GGGTACCTTGTGCTGCCATAAAACACACCACANACTTGGTGACTTAAACCACAGATATT  
TATCTTNTCACAACTCCTGGAGGCTGGAAGTCTGCAATCACGGTGCCAGCATGGTCAGGTT  
CTGGTGAGGGCCTCTTCTCTCACTGTGTGCTCTTCTTGTGCATGGAGAGAGAGCAT  
GAACAAGCCCTC

Sequence 3418

CCGCGGTGGCGGCCGGGGGCCATTGAGACTGCCATGGAAGACTTGAAAGGTCACGTAGCT  
GAGACTTCTGGAGAGACCATTCAAGGCTTCTGGCTCTTGACAAAGATAGACCACTGGAAC  
AATGAGAAGGAGAGAATTCTACTGGTCACAGACAAGACTCTCTTGATCTGCAAATACGAC  
TTCATCATGCTGAGTTGTGTGCAGCTGCAGCGGATTCTCTGAGCGCTGTCTATCGCATC  
TGCCTGGGCAAGTTCACCTTCCCTGGGATGTCCCTGGACAAGAGACAAGGAGAAGGCCCTT  
AGGATCTACTGGGGGAGTCCGGAGGAGCAGCCTCTTCTGTCCCGCTGGAACCCATGGTCC  
ACTTGAAGTTCCTTATGCTACTTTCACTGAGCATCCTATGAAATACACCAGTGAGAAATT  
CCTTGAAATTGCAAGTTGTCTGGGTTTCATGTC

Sequence 3419

CCGCGGTGGCGGCCGAGGTACCCTACTGGCCTATGCCGAAAGCACAGGAACTGTGAGGGT  
GTTTGATCTCATGGGAAGTGAAGTCTTTGTCAATTTCCCGGCATCTAGTTTTATAGGTGA  
CTTAAGCTATGCCATTGCTGGGTTGATATTTTGAATATAAAGCAAGTGCACAGTGGTC  
TGCANAACCTCCTGGTCATCAATTACCGAGGAGAACTTAGAAGTTACCTTGTAAGTGTGG  
AACAAATCAGAGCTACCAAGAAAGTCACTGTTTCAGCTTCAGTAGTCATTATCCTCATGG  
AATCAACACAGCTGTTTACCACCTGGTCCAGACTTTTACTTGTTGGTGGATGTGAAACT  
GCTGAAGTAGGCATGTCAAAGCTTCTAGCTGTGGCCTTTCTGCCTGGAGAGTT

Sequence 3420

CCGCGGTGGCGGCCGAGGTACTTTACAGCAACATTTAGACTAGTGTGTTGACCAACAAT  
GGGCACCAAGTCAAGCCAAGTTGGCATATAGAATTAGCCAGCAAACCTTGGTATTCACAA  
TCTGTCAATTATAGTCTTATCTATAAACCTAAGGTTTAGAGAAACGCTGGTCATTCTGAAC  
AATCCCTGTGAATGCAGAGATCAAGGAGCCTCCCTTAAGTGGGTAGGCAGTGTGAAAT  
ACCTGCAGTGTGCTTGACCTTACTGTTCAACCCACTGGCAGCTGTTCTACAGCTTGGCTT  
CAGATATATAATATTACATTGGCTAAGTCAAGAGCATTGTTTCCAAGGATAGAGATG  
GTGATGGTGTATATTACTTTTACCAGCCCCAGACCTGTAAGAGGTTCTCATCTCTTTGT  
TTAAGATTTTGTGTTTTTTTTTAATG

Sequence 3421

CCGCGGTGGCGGCCGAGGTACGCGGGGACACGTTTCCCGTCAAGATGGCGGATACTCTCC  
CTTCGGAGTTTGATGTGATCGTAATAGGGACGGGTTTGCTGAATCCATCACTGCAGCTG  
CATGTTCAAGAAGTGGCCGAGAGTTCTGCATGTTGATTCAAGAAGCTACTATGGGAAGG  
AAACTGGGCCAGTNTTAGCTTTTCAGGACTATTGTCTGGCTAAAGGAATACCAGGAAAA  
CAGTGACATTGTAAGTGACAGTCCAGTGTGGCAAGACCAGATCCTTGAAAATGAANAAGC  
CATTGCTCTTAGCAGGAAGGACAAAACCTATTCAACATGTGGAAGTATTTTGTATGCCAG  
TCAGGATTTGCATGAAGATGTCGAAGAAGCTGGTGCCTGCANTAAAAAANNANTNAAT  
TAAGTACCTGCCCC

Sequence 3422

CCGGGCAGGTACGCGGGTGACCCAAGGAGGACCATTTTAACTTCTAAGTTTTACCCGAG  
ATTAACATGCATTTGTTGAAAGACAAACCTCTTTACCCTACTCCCCAGCTGCAAATGC  
TTTCAGGGTTCACATCATGTTGGAACATTTGGTTACAGTGTTCCTAAACTTTGCGGGTA  
AAAATTGTTCAAGTAGGTAAAAATGGAGCACATACAAAAAAAAAAAAAAAAAAAAAAAAAA  
AAAAAGTTCCT

Sequence 3423

NAAGCCTTCACTGTCAACTTCGGGGACACCGAAGAGGCCAAGAAACAGATCAACGATTAC

Table 1

GTGGAGAAGGGTACATTGGACATCCTGGACTGATTCTGTAATCNCGTATCTTTTTCTC  
CCATGTACCCTTTATTTGNCNTTAGGGNTCTGCTTTTTGGGAGGATTTTCTTAACTTGA  
TCTACCTGAGGCTCAAGACCTNATCTGTTAAATGCTGNTAAAAGGACCT

Sequence 3424

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTACTCACCTTCCTC  
TGACAGAAAAGGATGAAGTCAAGGACCTGGTAGAGGCACCACTAAGAAAGGCATCTGAAA  
GGACCAAAGAGAGTGACCAGCAAGCATTTTTGCAAGGCTGAGGAGCTGACAGCTTCCAT  
GAAAGGCTGGACCACCCAGTGGTGAAGCATCATCTGGGTACCTTGTGCTGCCATAAA  
ACACACCACAGACTTGGTGACTTAAACCACAGATATTTATCTTCTCACAATCCTGGAGGC  
TGGAAGTCTGCAATCACGGTGCCAGCATGGTCAGGTTCTGGTGAGGGCCTTTCTCTTCT  
CACTGTGTGCTCTTTCTTGTGCATGGAGAGAGAGCATGAACAAGCCCTCTACTGTCCCTC  
TTAGAAG

Sequence 3425

CCTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGGAGATG  
CTGCCACCTAGGTTACTTGTAGGACCTATACGGCAACCTCCTTTGCCAGGAACATTTTA  
TAAACATCCTGCAGGAAAATGCAGTGAAGTAGAAGAGACAGGGATATCCAGAAGGTTAT  
GCAAAACATNAAGAGAAGATGAGAGGAGTCTATATGTCAGAATACACATTTNCCACCTTG  
CCCAACAGTAGAAAAACATAAGAAGAGAAAAACATTAAAAAATGACAAGGAAGTTAATG  
GAAGTCAGCAATGTGATGGTGTGGAGGTGGAGCCTTCAGAAGGTAATTAATGCCCTTG  
TAAGAAGAGGGCCAGAGAGCTTGCGCACCTTCTCCTGCCATGTGAGGAGCCAAGAAGCCG  
GCTGTCTGCAACCTGCAAGAGGACCCCTNACTAGAAGTTAGCCATACTGG

Sequence 3426

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTCCATGTTAGCTGTGCA  
TGTCCACCACGCTTTGTCTGTAACCTCGAGTAGAAAAAGATGTTGTGTTTTAATTAATCAT  
TCCTTACAATTCAAGATGAACCTCCACATACCCGCGTACCCACTGAATGTTGTTACTACAT  
ATTGAGAGTCATTTTATGCATATGCATTCTACCTTTCTGCTTTATGAGTATTTTAAGC  
TTTTAGTTCAAGGTTATATTCANAAAAATTTCCCAGCATAATGATACATCGTAGCCTAA  
GAAATATTTTCTCAATGTAATCCCTTCCCAGCTACCCAAATGCTACAGAGAAATGTTTT  
CTACTTGGCCACTATCAGGGTTCGTCATCTATTGTGTTGACTATTAATGGCTTTTTGATT  
GGGTAAGGAT

Sequence 3427

AGGTACTTTTTTTTTTTTTTTTTTTTCTATCCAGAGCCCTACTTGATCAAAAACTGG  
TTCTTTAATCCATTGCAAATTATCAAGTAGCTTTTAATAACTAACACGGCTATAAACCAC  
CATAACTGTTCTTTTTCCATATCAATACTATTCACTTACTAAAAAAAATCTGAGGGTA  
TANAATATGCTGATAAATGTGCTGGGTATTGGCGACACCAGGGAACAAAACAGACGAGGC  
CTCTGGCTCTTCTAATGGACAGCTGGGTGCAACTCTCTAAAAATACTACTTCATGATTTG  
ACAGGATATTTGCCAAGTCCCTCACTACTCTACACAATAACAACATTTTC

Sequence 3428

GCTCATACAGCTCAACAGGAGGAAAAGCATCTCTGGGAGCAGGCAGCCTCATGTGTCTG  
ATTCGCTGCTCAATTCAGGCAAACTACAAGAATTACTCCATGGAGTCAAGGACACACT  
TTCGAATCCAGGCAGCCACACTCCAAGCCAAGTCTTCCCTAGAGGAACCAGCAAGCAGAT  
CCATGGTCTCATCAGTGTCTTTGTAGCTTTTGTGCANGCCAGATTNCNGGGCCTGGGAA  
GACAGNAGNANCAGCTGGNACAGAAGCCTCCTGGAAAACCATTTTCAAAAATACCCCTT  
CCCCCTGCCCTTGCNCCTGGCCTTTGGGGGGTCCACCCGGGCAACTTCCCAGGTTGGG  
GATTGGGGNACCAAACCAATTAAGNTGGTTATCCCGNTGGCCAAGGAAAANCCCCGNAG  
CCTTNGGGCAATTTTTCAACCCANGTTGGTTAAGGCCCAAGGGGGCCCCCTTTTGGC  
CCCAAAGGGGGCCCAGNAAGCCAATGGNTTGGGGAAG

Sequence 3429

ATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGCACCCTCCC

Table 1

TACCCCCTTAAAAACCCACTAGGAAAGGAAGAAGGGGTGGAAACCCATTAGGAGGGAGTG  
AGCAGGCAGATTTGCCCTGAGAGTCTACACCCCTGGCCTGATGCACAGAGAACAAGGATG  
TCCTAGTGTGGCACAAAAATCTAGGGGGCCACCCAAAACCTGCTCTCATGTTCTAAAGGTGA  
CTGTGTGGGGTTTGAACCTTGGCGCCCACTGGACAGTGGTGAGCACTCACCACCCTGAGG  
CCTGGCAGCCTGTCTGTCACTGGAGAGCCGTTT

Sequence 3430

AGGTACACGTCTCTGTCCGGGCCCTCGGCCAGGGTGCCGAGGGCCAGCATGGACACCAGGA  
CCAGGGCGCAGATCACCTTGTCTCCATGGTGGCCATTGCCTCCTCTCTGCTCCAAAGGC  
GACCCCGAGTCAGGGATCCCCGCGTACCTGCCCGGGGCGGCCCTCTCTAAAACTAGNT  
GGNATCCCCCGGGCCTGCAAGGAATTCGATATCAAAGCTTTATNCGATACNCGTCTGACC  
TTCGAGGGGGGGGGCCNGGGTAACCCAGCCTTTTTGTTNCCCTTTTANTTGAAGGGTTT  
AAATTGGCGCCGCTTGGGCCGTTAAATTCATTGGGTTCAATAANCTTGTTCNCCTG  
GTGGTTGAAAAAATTTGGTTTAATTCCCGGCTTACCAAATTTCCCAACCAACCAAAAC  
AATTACCCGAANGCCNCGNNGGGGAAGCCAANTAAAAAANTTGGTAAAAAAGCCCCCTNGG  
GGGGGTTGGCCCCCTTAAATTGGAAGTTGGAANGCNTAAACCTTCAACCAATTTAAATTT  
GGCGGTNTNGCGGCCCTTCAACNTTGGCCCCCGGCTTTTTTCCAANNTCCGGGGAA  
AAACC

Sequence 3431

AGGTACATTGTAGGATGCTTACCAGATCCTGCCCACTAGAGGCCAATAGCACCTCATCAT  
CATAGCACCCCTTCCCTCAGTGATAATAAAAAATGTCTCCAGACATTGTTTAAGTTAATA  
AATGTGCCCAGAGCCCAGGCACAGTGGCTCAGGCCTGTGATTTTAGCTCTTTGGGAGACC  
GAGGTGGGTGGATCACTTGAAGCCAGGAGTTCCTAGAACGTTCTCTGTCAAAAGACAAA  
ATTACAACAATTTAAATCTAATTGGCTGTTATTGGCCATTCTAGAATTGGTTGACATCT  
CATTCTATGAAATACAATGAGTGCTCTTCAATAAGCTGAGCAGAGGGGGGTTAGCTTTAT  
TGGCAGAAAAGGGCTAAAGAAAACAGAAAAAGAACAAAAGTGATTGGTTGTTTCAGAGT  
TACTTTCCTTAAAGAGG

Sequence 3432

CCGGGCAGGTACGCGGGGTGGAGACATGGGATTTCTCATGGAAAGTGAAAAAATACTCACT  
CAGAATAATGTTTTTCAAACCTCTTCTGTCTTCCACAGTATGTTCTTGTTACTGATTGT  
CAGAAAGCTGGTTTTGAGACTGCAGCTTGGACTAAAGTAAGTTTTGTCTAGAATTGTTTC  
TCTATTCACTATAGACATTTTCATGCTATGATTTATTTCTAAGCCTAGGGGAAACAATAA  
ACAACATCTGGCTATCTTATTTCAAATTTGTTATGTAATAATTGTGGATTGATCTTTATT  
GGAGCAAATTTGTAATCCAAATCTCTTGGTGATTTATTTGCTTGGCACCTAATACACCT  
CTAAGCTAACACAGTCACTCTNATTTCAAATGTAAAGCCTCATTGTAAAAACAAA

Sequence 3433

CCGCGGTGGCGGCCGAGGTACCATGCGGTGAGCCAAATGTGTAAGGAACCTGTTTTGAGA  
GGAGAGAAGAAAATTCTATAGTAGGCGAGACAGGCTTCTCTCTCCTGCTCCTCCTCCTT  
TCTTTTTCTCTCTCCTCTTCTTCCCTCCTCTCTCCTCTTCTCTTCTCTCACAC  
AGTTCCTACATTTCTGCACTGGGGGACAAACCAGGCTTCTGATCAAAGGCAATCCGAGAC  
TTGGGTTCAAAGCTTTGATGAAGATTGGTACCTGCTATGCAGATGGGGGGAGGGAAGAA  
GAGACTAGCCTAGGGGCTTTTATATTTCTTTAAAGCATCAGCCATTAATGGGCTAAGTTT  
ACCACTGGGACCCAGAGAGCTAGTCCCCAACACAAAGCTCAAATGTATGCATTTTCCAA  
TTCATGGTTTTCAAGGACATGTTCCCCCGGTACCT

Sequence 3434

CTTAGGGCGAATTGGAGCTCCCCGCGGGTGGGCGGCCGCCGGCCGGGACCTTCTNTTTT  
TTTTTTTTTTTTTTTTATGTATNCATCACTCAAATTTTATTAAAGGCAGCACAAATAGCC  
CGCTCATTTTTGATTGAGAAATAAACTTGTAATAAACCATCTNTCTTNAATAGTACC  
GCAGACTGTCTTTTAAAGNAGCTCATCTTTATTTGATGCAATCTAAAGGCCCAAACCTCT  
GAAAGAAAATAANAACTATTGTTAACTATTATTAACAAAGTAATATATCAAATAATTCA

Table 1

CTCAAACCTCCTACTTAAGAAACGTGTCATCACCATAAGATAGTAAAGGCTCTTCTAATA  
TTGCTTTGTTGAGACAATTCATTTTCATCTT  
Sequence 3435  
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGCTTAGACCTG  
ACGCTGGGAGGAGATGCTGCCACCTAGGTTACTTGTAGGACCCTATACGGCAACCTCCTT  
TGCCAGGAACTATTTATAACATCCTGCAGGAAAATGAGTCAAGGAAGCTTTTCTTTTGA  
GCTATTTACAGCTTTTAGCAATTGAGTAAAGTATACTCCTGTGAACAAAATTTGGAACAT  
ATTTGTTTCTCTCTAACTGATTTCTCCAGAATTTGGAAGTAAACCAGGAACCTCTC  
TTGGGGTGTGGATCGAGACCCCTTTCTGGTAACGAGAGCACAGCTTGGTTTTATACATTT  
TAAGGAGACATGAGACATCAATCAACGTATATAAGATGAACATTTTGATCT  
Sequence 3436  
ACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGGCACT  
TTACTTGTTCAGAACTGGAGCAGGATTAACTGGTTCGAGCTTCTTGAAGAAATTTTAT  
TTTGTATCATCTTTGGCACCATGGAAGAAATGCAGAACAAAGCTGTGGTTTTCTTTGT  
GTTTTATTTGTGGAGTGCCANTTGAATTTTTCAGGTGGGTAGAAATGCCAGGATGGTGT  
TTGGAATGCTGCTCCCTGTTTGCAGCAGCTCTGTTCTTGAGGGAGTTGTTATCTTAGCCA  
GAGTCTCATTTGGTTTGGGACTAAGATTACATATGTGGAGAATTCTGGTTGCACCTATGT  
GCTCTGCAAAGTTGGANNCANATTTTTTAAA  
Sequence 3437  
AGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTACAGGGNTGTCTTCCCTCTTTGAC  
AACCCCCATTCCAGCTTCAGCCCTAACATGACAACATAGCTGCAGCAATCTTACGTACCT  
TCCATTTCAAACATTCTTGNNGAACTTAATTGTATACTAAATCGTATGACGTGCCAAGCA  
CTGAGCTAACGGGTTTATATAAGAGGCACAGCATAATGGTAAAAGCAACTGGGGAGTACA  
ACTGAGTTTGAATTGNGCCATTANACAGCCCTTCANACTTGAAGTGCAACACCGGCTCCTC  
CCTGGGTCTCAAGNGGATTGGGTCTCTGNGGATTTTAACT  
Sequence 3438  
AGGTACGCGGGGAGACCTGACGCTGGGAGGAGATGCTGCCACCTAGGTTACTTGTAGGAC  
CCTATACGGCAACCTCCTTTGCCAGGAATTTATAAACATCCTGCANGAAAATGAGTC  
TATATGTCAGAATACACATTTNCCACCTTGCCCAACAGTAGAAAAACATAAGAAGAGAAA  
AACATTAATAATGACAAGGAAGTTAATGGAAGCAATGTGATGGTGTGTTGGAGGTGGAGC  
CTTCATAAGGTAATTAATGCCCTTGTAAGAAGAGGCCANAGAGCTTGCGCACCTTCTTCC  
TGCCATGTNAGGAGCCAAGAAGCCGGCTGTCTGCAACCTGCA  
Sequence 3439  
CCGGGCAGGTACTGTCTGTAGTATCAGCTAGAGCTGACGGTAGCTGCTCTGTCTGGATAG  
CTAGGCAGGCACAAAATGGGAGAAGGAAATTATTCAGCAGCCTTGAAGCTTCAAAGACTC  
AGAGAAAGGAACTGAAACTCAGTGTGCCAGCCCACTTGACAGCATGCCAACTTNTCTC  
AACAAAGGGAGCATAAGCTGATCCAGCTTTTAGACAGT/AAAATTTTATATTAATAAAAAATT  
GAAAGAATCAAGGAATTGAAGTCAGAGGGAAGAAAACAATAACAGCTCACTNACTTTTAAA  
AAATCTTTTTATTTAAGGAAAATGCAACCAAT  
Sequence 3440  
AGGTACTATTGACATTTGGGGCCAGGTAATCTTGGGGGCAGTGGGGAGATGCTGCCCTG  
GGCACCGGAGGATGTCCAGCAATATCGTCTACCTACTAGTAGTCAGCAGCACCGCACCAA  
GCTGTGACAACCAAAAAGGTCCCAGACATTGTCAATGTCCCCTGGAGGACAGAAGTGGCC  
CTGTTTTACAGGAAGATAAATGTCCCTAATCCTTTTGTGTAAAAGGGGAATGTTTTT  
ACCCCTTAGACCGGATAAGCAAGACCAGCTGAGACCTACTGGTATAAAGCATACTGCCTGC  
TCACATGGTGAGAACTCAATAAATGTTTGTATCACTACGTAATGAGAGAT  
Sequence 3441  
AGGTACTTCTGTAAATTGACAGCCTTGCCCTGTTTCTCATGGCATCATTCAAGGTGATCT  
TAAATGAGAGAGGAGGGAAAGAAAGAAAAGAAATCATACGTTATGGTTTTCAAATGCAC

Table 1

CCAGAGGAAAGGCAGGGTTGTTTTGAAAAGTTTACTTCTATCTGAAAGCTTCTAGCAAA  
TGAAAGCAAACAGTGCAAAGCTGAACTACAAATAATAAGCACAATTATGGCAGGAATCT  
GTCCACATTACCCAAGCTACTGTGCCATTAAAGAGGAAAATAGACAGTTGAGCTGCAGG  
TTAGTCACCAACTGGGAACATGGAAGAAGCTCAACAATACATACAGGA

Sequence 3442

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGCAGGTACGCACAAGC  
AGGGCCCAGCTTGGGAGACGCTAGGATAACTAAGACCTGGTCAGCGCCCTGAGGAGTCTT  
GTCTGGATAAAGGGAGACACACACTAGCTTGGACTTATGCGTGACGCGGAGCTGTGTAGA  
GCAGGAGTGCGTGGAGAGGGCAGCAATGAACTTTGGCTGGAGAGCCAGAGAAAGCTTCGT  
GAGCTGGAACACGGGGTAAAGTAGGAGCTTCCAGGGCGGAGGGGACTTCTGAAGTGGAG  
GAACTGCCTGTTCAAGGACATGGAGGTAGGGATCAAAGTTCTGAGTCATGTGGGTGGGCA  
CAGAGCAGAGGATGGCTGGGGCGGTCTCAGGGATAAGGAGAAGTTTGGGACCAGACTGT  
TTTGTACCGTATCTGCATCCCTG

Sequence 3443

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCAAGTGGCCATGTGGA  
GCTAGTGGCCACCACACTTGACACCACGGATGCAGAACTTTTCCATCACTGCAGAAAGCT  
CTGTTGAACAGTACTTTTTTTTTTTTTTTTTTTTTTTTNNCCGCATTANATCACTGN  
GGGTNTTAAACAAATTTCTTNAAGCGAAGTTTGGGTTTTTACTTTNGCTTCACTCTCA  
GCTGTAGGCATCTTTCAGCTTTATGCANAGGACTGANAATGCAAAGCATTGACTCAATCA  
GGATCCTTTTNTCAGACATAATTAANAAGGCTTTGACAGGTTGAANATTAGCCCCAGGT  
TCCCGNGTACCTGCCCCGGCGGCCGCTNTANAAGTGGGGATCCCCC

Sequence 3444

CCGGGCAGGTACTGCAATAACAAAATACAGCAATAAAACAAGTGGACACTCCTAGGGGAC  
ACCAAAGATAAAGGGCCCATTAATCAGGTGGAGGCCANAGAAACCGGAAGGCTATTTTAA  
AGTGTTTAATATAAATCATGTAAAGGNNAAAAAATCCTTCCCCAAAAACAAATTNA  
AAGTNCAAAGCCAAATTTTCCATTANTCCTTAATATTGGAACTTTAATTTTCCATTA  
TTCTTAATTATNGAACCTAAAAAATAATGGAATAAATTGAACCCCTTTTGGCC  
TTGGGCCAATTTTAATTTTGGCCTTAACCCGCCCGGAAATAANTTCCCAATTAACCCCT  
TTTNNCCCCCCCCCTTTTGAATTAATTNTTAAAAAGGGGAACCAATTGGTTNGGGNGG  
AAGGAAAACCNNTTTTAAATTAANAACCAAAGGNGTTANAANAAGGGTTGGTTNGNC  
CACCCAAGGNAAAAGGGGCCAACCCCTTNGGTTTTTTTGGNNGGGCCANCCCTTANNGCC  
CANAAAAAAGGGGGAACCAANGTTTAAAAATTTTCCAACCAATTGGGAAAATTC  
CAACCGGNTGGGAAAANCCTTTTTTAAAT

Sequence 3445

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGCAGGTACAGGGAGGAGT  
GGCATTGTCCAGTATAGCCAGGCCAGTCTGTGGTGGGCTCAGGCTGTTTCTGCTGGCTTG  
GTCCTGCTGTCCTGGACCCTAGCATGTGTGCAGTCCCCGCTACCT

Sequence 3446

CCGGGCAGGTACAGTAGTGGCAACCAGCCGGGAAAATCCA TAGGATCATTTAGACCGCA  
TTCAACACAGATACTCATGTAGCCCCGACGTTTCTTGTAAGGGAATTGATGTATTGCTT  
GAGGGGGTCGATCTCTGGTCTAAGGTGTTTTGGTTTGTTCATCGTGACTACCAGAAA  
ATTATAGAAGGCCAGACGCAGTGGCTCATGCCTGTAATCCAGCCAGTTTTCTAATTAA  
GTTTTAATCTGTCTCCTCCACTAGGCCATGAGCCCTAGGAGGAGATTGTCTTAGAGGGT  
ATCCCTGTGCCTGGCACATGCATGCAAGTTATGATTTATGTTGATGAATGAATGAATGA  
ATGAATGAATGAATGGTGGATGGGTCTCT

Sequence 3447

AGGTACTTTTTTTTTTTTTTTTTTCTGCTACTACCTCCCCGGGTGCGGAGTGGGTAATT  
TGCGCGCCTGCTGCCTTCTTGATGTGGTAGCCGTTTCTCAGGCTCCCTCTCCGGAATC  
GAACCTGATTCCCCGTCACCCGNTGGTCACCATGGGTANGCACCCGNAGACNACCCCAN



Table 1

TNCNAAAAGTTGTATANGGGCAGNACGNGTCGAAATTGGGNTCGNTCTGCCCCGCCACNG  
 GNGGGGGNCAGTTGTCNAATACGGCNCGCCCGGACAGTACNCTGCCCCGGGNCGGGGCC  
 GTNTCTAANAAACNTAGTNGGGATTCCCCCGGGGCTGCCAGGGNAATTCGATAATCA  
 AAGTCTTTNTTNTGAATACCCGGTCNGAACTCTTTNAAGGGGGGGGGGGGGCCCCCGGTTA  
 CCCCCANGCCTTTTTTGGTN

Sequence 3448

CGGGGGCGGGGCGCTCGGCTGCGGCGAGNCGGNATCAGCNNCACTCAAAGGGCNTGTAA  
 TACCGGNGTATCCACCAGAAAATCAGCGGGGGATCAACCGCANGGAAAANGNAACCANGT  
 NGAGCCAANAAAGCGCNCAGCCAAAAGGGNCCCAAGNGCAAACACCGCTAAAAAAAANGN  
 GGCCCCCGCGNAANNGCCTNGNGCCGGACNAATTTTNCCTAATTAAGGGGCGNCCCGGCC  
 CCCCCCCCCNGGGAACGNAGGNCAATTCCAACCAAAAAAAAAANGNCGGACCGGCCNNC  
 CAAAAGATNCCACGNAAGGGGGGGNGGCCAGGAAAAACCCCCCGGAACCAAGGGGGAA  
 CCCTNAANTAAAAAAGGGAANTAACCCCCAANGGGGNCCGGGTNNCTNNCCCCCCCCC  
 CTGGGGGGAAAAAGGGCCNTCCCNCCCATNCNGGAGNGGGCCCGNCCNNCTTNCCCC  
 CTGGGNNATNNCCCCGGCAACCCCCCNGTGGGGCCCCCGGCCCTNTNTAAACCCCN

Sequence 3449

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGCGCGGGGAGAACTTGTGTGCTTAGACCTG  
 ACGCTGGGAGGAGATGCTGCCACCTAGGTTACTTGTAGGACCCTATACGGCAACCTCCCT  
 TGCCAGGAATATTTATAACATCCTGCAGGAAAATGAGTCTATATGTCAGAATACACAT  
 TTCCACCTTGCCCAACAGTAGAAAAACATAAGAAGAGAAAAACATTAAAAAATGACAAG  
 GAAGTTAATGGAAGTCAGCAATGTGATGGTGTGGAGGTGGAGCCTTCAGAAGGTAATT  
 AATGCCCTTGTAAAGAGAGCCAGAGAGCTTGGCGACCTTCTCCTGCCATGTGAGGAGC  
 CAAGAAGCCGGCTGTCTGCAACCTGCAAGAGGACCCTCACTAGAAGCTAGCCATACTGGC  
 ATCCTCATCTTGG

Sequence 3450

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTT  
 TTTTTTTTTTTATTTGGTTTGTAGGAGTACACGTCCCTAGAAAGCACATAGCTCCAG  
 CAACAAAGCTAATCTGAGAGTAATACCCAAGATGCCTCCTACCTTGCAATTTCAAGGAA  
 TTTCTCACTGGTGTATTTTCATAAGGATGCTCAGTGAAAGTAGCATAAGGAACTTCAGTG  
 GACCATGGGTTCAGCGGGACANANANACTGCTCCTCCGGAAGTCCCCAGTAGATCCTA  
 AGGCCTTCTCCTTGGCTCTTGNCAGGGACATCCCAGGGAAGGNGAAGTCTG

Sequence 3451

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCCTTGCCCAAATGTT  
 TAATGATTTCCAGTTTCATTAAGTAGTAGATACATTGAAAAATATAAAATTAATATTC  
 CCTATAAGTCAATATTTGCATAATACTGCTAAGTTGTTTTTTATTAGGTCATTCATTC  
 ACTTTACAAATCCATTTCACTTGTATTAGATCCCTCTCTGGGCGCATTGTTGGAGGT  
 GTGTGGTGGTTCTTTACCCTGATCATAATCTCCTCCTACACGGCTAACTTAGCTGCCTTC  
 CTGACTGTAGAGAGGATGGTGTCTCCCATCGAAAGTGCTGAGGATCTTTCTAAGCAACA  
 GAAATTGCTTATGGAACATTAGACTCTGGCTCCACTAAAGAGTTTTTCAGGAGATCTAAA  
 ATTGCAGTGTNTGATAAAATGTG

Sequence 3452

TCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGGGCAGGTACTTTTTTTTTTT  
 TTTTTTTTTTTAGGATACTCAAAAAACATATTTGCGATGTGCCAGGAAAAGGTAAGGA  
 AAGGGAGCCTTCATGTGCCAGCCCCGTGTCTGAGCCCTGGAGCTGTAGAGAAGAGTGAGG  
 TGGATTTTTGTCTGTAAAGAGTTTGCCGATGGGACCAAGTCTGTCATCTCTCTTCTCTG  
 GCCTGACCGAGGACAAGCACTTCTTAGTAACCCCTGTGAATACCGATGCATCCCGTCAGTC  
 AGCAGCTGTTTGCAGAACACAGCTGCAGGCCAGGCACCGTGCTGCAAGGCGTANATATG  
 TTGCTGAACACGACTCCCTTCAGATGTTTCAAGGATTTAACAG

Sequence 3453

Table 1

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCACACACCCTCCAC  
TACTCATCACCAGACAGGGAACCCTGGCTTGGGCCACAGCACAGACCCTCCATCCTGGG  
CCGATTACACTAAGTGATTGCTAACTCACATGTCTCTGGGATGGAGCAGCCAGGAGACAA  
GCAAAGTGTTGGAGCAGCAAGTCAGGTGATGTGGAGCCCAGAGGGCTGGGACAGCTATCT  
CTCTAGGGTCTACTTGCCCTTGAGACACTTTATCCCAGCACTTTAGGAGTGCTGAGGT  
CATACCAGCCACATCTCATGTGCAAGATTGCCCAACAGAGATCAGGTCCAAGAGTTCTGT  
TTTTAAGAAAGGGGACTTGTGATAAGGGAAGTCTGGCCATGTTTGTGTGGAGCANCTG  
TGCTGTGCTGGGGGTTCACTTTTGA

Sequence 3454

CCGCGGTGGCGGCCGCCCGGGCAGGTACTTTACTCACCTTCTCTGACAGAAAAGGATG  
AAGTCAAGGGCCTGGTAGAGGCACCACTAAGAAAGGCATCTGAAAGGACCAAAGAGAGTG  
ACCAGCAAGCATTTTTTGCAAGGCTGAGGAGCTGACAGCTTCCATGAAAGGCTGGACCAC  
CCAGTGGTGAAAAGCATCATCTGGGTACCTTGCTGCCATAAAACACACCAGACTT  
GGTGACTTAAACCACAGATATTTATCTTCTACAATCCTGGAGGCTGGAAGTCTGCAATC  
ACGGTGCCAGCATGGTCAGGTTCTGGTGAGGGCCTCTTCTTCTCACTGTGTGCTCCTT  
TCTTGTGCATGGAGAGAAGAGAGCA

Sequence 3455

CCGGGCAGGTACGCGGGGAGACCTGACGCTGGGAGGAGATGCTGCCACCTAGGTTACTTG  
TAGGACCCTATACGGCAACCTCCTTTGCCAGGAACCTATTTATAAACATCCTGCAGGAAAA  
TGCAGTGAAGTAGAAGAGACAGGGATATCCAGAAGGTTATGCAAAACATCAAGAGAAGA  
TGAGAGGAGTCTATATGTCAGAATACACATTTCCACCTTGCCCAACAGTAAAAAAGTACCT  
AAAAAAGTACCT

Sequence 3456

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTT  
TTTTTTTTTTTTTGGTAGAGACAGGGTTTACCATGTTGGCCAGNATGGCCTTNATCTC  
CCANCTCATGATCTGCCACCTTGGCTTCCCAAATTGCTAGGATTACAGGCGTGAACCA  
CCGCGCCTGGCCTATTTTTAATTACTTTCTGCCATTACTTTTAGTGGCAAAATTNNGAT  
TATTTTTGCATCAACCCAATAAATTTCAAAATGACAAAACCTGNANATCCAGCACCACCA  
CACTGNCTTATTATATTTCTACAAAAGAGTGTTTTTCTGGATTAGACAATGCCCAGTA  
ATNACCAAGACAACCTACATTTGGGTCTGGCTTCAGAGACGACGACTGTGGAGCATTTGAG  
ACGCTGACAAACTTGAGGCCATTGNTGCGCCATGTTTTCCCAA

Sequence 3457

CCGCGGTGGCGGCCGCCCGGGCAGGTACCACTCANAAGCCTTCACTGTCAACTTCGGTG  
ACACCGAAGAGGCCAAGAAACAGATCAACGATTACGTGGAGAAGGGTACATTGGACATNC  
TGGACTGATTCTGTAATTCTCGTATCTTTTTCTCCCAATTGTTCCCTTTATTTGGCCTTT  
TGGTTCTGCTTTTTNGGGGAGAATTTCTTTAACTTNATCTACCTTGAGGCTCAGTCCTN  
ATCTGGTAAAAATGCTTGATAAAAAGGACCTACCACCTAACCGTTGCTTGTGAAGGTGT  
CAGTTGA

Sequence 3458

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTCTTCTCC  
CCTTTCACTTTTCTGTCTCCCTAGAGCTTCTGCTGCTTTCTACTGAATTTGTTCTTGC  
TTGAAGAAGAGGGTAGTGAAGGAAAGGAGGAAGGCAAAACAGCAAGAGAGAGAAGAGGCT  
GTTTGAACATTCTGGAACAGGTTTGAACAGCTCANGCAGGGAGAATGGAACGAAGGCC  
TGCAATGAGAAACCAGAATGCTGCTATCATTTTGTTCCTGACATTACACCTCANGTCTT  
CACTTTGGGGAGCGAAAGCCTTTAAGCAGAAAATACCAGCAAGTACCTCGGCCGNTCTA  
GAACTAGTGGGATCCCCCGGGCCTGGCAGGGAATTCCGATATCAAGGCTTTATCGATACC  
CGTCGACCTTCGAGGGGGGG

Sequence 3459

TTAGGGGCAANTGGAGCTCACCGCGGTGGCGGCCGANGTACTGACCCTAGACATAGGCAT

Table 1

GGGCTTTGACTTGGNTTGNNGGNNTTATACTGCGGTNCNGCCAGGGGTTTTGTNTNAGTC  
TNAACCATGACTNTAGTCTTAGTTGTATCTTCCACCTTGATCACTTCCCTTGTCACAGCC  
ATAGCCTCCCCTGTAGGTCAACTGTATGTGTCCTGGTCATTGCTCCATCACCAGCTTTGG  
CCTGGGTCACTGATTCTGTTTTCACTTCTGCCTCAGCCACTGCCTCGGCCTGGGTTTTAC  
CATTCACTCTAGCAGTGGCAGGACCACTGATTCCATCTTGCAGGCCAGCCTCAGCCTTTC  
CTCTAGCCCTTGCTTCTGTCCCAGAGTCAACCATGTTCCAAGTTAAACGTAAGGACAAG  
TTATATACC

Sequence 3460

AGGTACCCTGGACTCATACCTGAAAGCAGTGTTC AACCTTAGCAAAATCTCCAACCAGCG  
CATGAACAATTTTCTACATCACACGACCTGGTTTTCAAATTCAGCTCTCAAGGCCAAAT  
CTTTTCTAAATTTAACCAAGAACTTCATCAGTTTCACAGAGAAAGNAATCCAGGACCGGA  
AGGAGTCTCTTAAGGATAAGCTAAAAACAAGATACTACTCAGAAAAGACGCCAGGATTTTC  
TGGACATACTTTTGAGTGCCAAAAGTGAAAACACCAAAGACTTCTCTGAAGCAGATCTCC  
AAGCTTGAAGTGAAAACGTTTCATGTTTGCAGGACATGGACACCACAACCTACTGCTATCTC  
CTGGGATCTTTTTACTGCTTGGCAAAGTACCTGCCC

Sequence 3461

GGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCGCGGGTAAGCTGTGTGTTTTTGC  
ATTTAAGCTTTAATAATGGAAAGCGCCCAAAACCTTTTCTTTTTCAGAACAGGAAAAGCT  
AAGACTTAGTCTCACCCCTCTTCTGACTTTTTCAAACAGTTTTCTAATTCAGAGAAGA  
GCCTGAGCTCTGAGAATCATTCTNCTTATTTTAAATTTTCCATAANCTTNGTCCCCGGAA  
AATGCANTCTGGGGGGAAAAGCATTTTTAAATAGTAAATCATCTGAGTCTAGTCCAGAA  
TTTTGGAATCCAAGGGGGCAAGGCGGATACTTTGTCATAAACAGGANGCAATAATACCGTA  
GATAATTGCAGTCAGTGGAGGAAAAGTNTGGCGCTTGCTGTGGCTCTTGACTGCTTCCTG  
GGATTAAGTTACTAAGACCCAAAATGGTTGCAAACCTGGTCCCATTGGCTTTTTTGGC

Sequence 3462

AGGTACAGACAGGCTTCTCTGCTATCCTCCAGGCAGTGTAAATAGTCAAGGAAAAGGGCAA  
CAGTATTGGATCATTCCCTTAGACACTAATCAGCTGGGGAAAGAGTTCATTGGCAAAAGTG  
TCCTCCCAAGAATGGTTTACACCAAGCAGAGAGGACATGTCACTGAATGGGGAAAAGGGN  
ACCCCNGNNTATTNCACAGGTNNCNTTGTAAAGNCATTTCNANTTATNGCAAGGGAAAGA  
ATGGGGCTTTTTNGGNGNCAGNTGGGCCTTGGAATNNAAGGCAAGANTTTTTGAAG  
NATNACCCNCAGNCTTCCCGTNGAAAACNAAAGNGGTTCNATTNCTTTANTTAAACCAAG  
GGTTTTCTTTCCCTTTTCCACCTTGAGAAACCAAAATGGTAAATTTTTCANNGGGGG  
GTNTGGAATTNCCAATTTTTCTTTCNTGNAANGGGGGGGNCTTTGGAANTAAAGGGGTTT  
GGCCTTTTTCCCTTCCGGGAATNTTTTTNCAACCTTANCCCCCAATCCAATTTTAAAGC  
CCCTTNTGGGGGCCCTTNCCTTTTNTNGGTTCTTTCCAAGGAAAGGGGGGGTTAAATTC  
TTCTTAAAACGCAACCTTTAAGGGGGGGGGCCNNTTGGGGGGTTAAATTAATTAATT  
TGGTGTGGGGGGTTC

Sequence 3463

GGTACGCACAAGCAGGGCCCAGCTTGGGAGACGCTAGGATAACTAAGACCTGGTCAGCGC  
CCTGAGGAGTCTTGTCTGGATAAAGGGAGACACACTAGCTTGGACTTATGCGTGCAGC  
GGAGCTGTGTAGAGCAGGAGTGCCTGGAGAGGGCAGCAATGAACCTTNGCTTGAGAAGCN  
AGANAAAAGCTTTCTGTAGCTGGAACACGGGGGTAAAGTANGAGCTTTCAGGGCGGAGG  
GGACTTCTGAAGTGGAGGAACTGCCTGTTTCAGGACATGGAGGTAGGGATCAAAGTTNTG  
AGTCATGTTGGGTGGGCACAGAGCAGAGGATGGCTGGGGGCGGTCTCAGGGATAAGGAAG  
AAGTTTTGGGGACCANACTGTTTTGTCACNCGTATCTGCAT

Sequence 3464

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTATAGCACAAAGCTGA  
TGATAGCTGGCAACTGAACATTTGGCTTCAATGTCAGAGTAATAGAGTGTGGCAAACCTGC  
AGAGCTCATGCTCCGCCTAAAAGGGGCAGCTGCTGCTCAGCTCCTGCCAATTACCACCAT

Table 1

GCAGGAATTTGGCCTANTGTGCTCAGCTCTTTCTGGTTTNTACCCAGAAGCCTAGGGAAT  
CTGGGGTTTTTATGTGAAATGGCCCTAATTTTTAAATGTTAGCATCCACTCTGAAAAA  
AAACAAAACACCGTGTGGGGCCAAATAAAACATTTGCTGGCCAAATGCAGCCTGATTTGC  
TCTGGTTTTCAACCCCTGGCACAAGAATTTTGGTTCAATTTCTCTTGTGNTGGNACCTNG  
GCCGCTCTAGAACTAGTGGGA

Sequence 3465

AATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTCCCTTGTGAC  
TGGAGAGAAGTGTACATTTTGTCACTCTCAACCTTCTCGCCACCCCTTCCCGGAG  
AACCTGTGCGGTGTGTAGAGGGTGTGTGAGCCACCTCCAGCCTCGGGTGGCTGCTTAAG  
TAACTTTCACTNCTNTNTNTTAACTTTTAAAAANTTTTTCGGGAAGCCGAGGGG  
CNAAGGCAGCTGCTTTTCTGGCCTCTTTGGCTGGGCTCTTTTTTGAAGATTTNTGCAA  
CCCGGGGGGACCCAGCCACCTTTTATACAAACCCGCTTNTGCCTGGTGATAAAAGTG  
GATAAGNATTTTATTTCCAAAAANCAAGAAAGAGGGAAAGCCATTATTTGCCACTGGA  
AAGAAAAATATTCCTTATCAACNTTAAAGCCTTGGGATAACCAGTAAAAAACAGGGA  
CCNCAAGNAANGATGAAAGGAGCCAGNACATTGGGAAAAAATTTCTTGGGGATTCCC  
TTCAAAAT

Sequence 3466

GAATGGACTCCACCGCGGTGGCGGCCGCGGGGATGCGAGGCTCGGAGCACCTTGCCCGGC  
TGTGATTGCTGCCAGGCACTGTTTCATCTCAGCTTTTCTGTCCCTTTGCTCCCGCAAGCG  
CTTCTTGCTGAAAGTTCATATCTGGAGCCTGATGTCTTAACGAATAAAGTCCCATGCTC  
CACCCGAGGGACAAGTCTTTTGGTGGCCCGCANTTTTNTTTGNNCAAAAAGNNCCAA  
AAGGGTCCCTTTTNGGGCCCCGGCCTTAAAGAAACCTTAAGTGGGGAATTCCCCCCCCG  
GGGGGCTTGCNAANGGAAAANTTTCTGNATATATTCCANAGGCCTTTAATTCGGAATNA  
ACCCCGGTTCCNNAACCCCTTCTCGAAGGGGGGGGGGGGGGGCCCCCGGGGTTANCCCCNC  
AAGGGCTTTTTTTTGGGTATTCCCCCTTTTNTTAAAGNTTGGGANGGGGGGTTNTAAAA  
TTTTGGNCNGGCCCNCCCTTTTNGGGGGCCNGTNAAAAATTCAAATTGGGGNNTNCAAA  
TTAANGGCCATTGGNTTTTTTCCCTTGGGNGGGTTGGGAAAAAATTTTGGGTTTAAAT  
TCCCCGACNTTCCACCCANAANTTTCTCCANCCAACCAAAANCNATTTACCCGNAAGNC  
CCCCGGGGGNAGGGCCAAATTAAAAAAGGTTGGGTNAAAAAGGNCCNCTTGGG

Sequence 3467

ACACTACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACATGGAGGCCGAC  
AATTTGGTGACCAAGTATGGCAGGCCACTCAGCTTTGAGTAGCCATGTCCGCAACAGGCC  
CTGCGGCACATCTCAGCTCCCTGGGTGCAGAACTCTGACATCATGGCCTTCATGCCCGTG  
CTCAGTGCGTGGAGCTTGTGAANAACATGGAGGGGGGTTGGGCGGTGTTAGGGGGCCTCC  
ACCATAGGGACCAACCCTGTGCACCACTTACTGAGCATCTACTCATGCCAGCTCAGCTC  
TGAGGTCCCGGTACCGGCCCG

Sequence 3468

TTTTATNGGGGGACGANTTGGGGGAAGGCTCCNTTCGCGGGTGGGGCGGGCNCNCCCGG  
GCAGGGGTTACCTTTTNAAACTCANGGGCCATCTCCCACTTTTTCAAAATGGAATT  
TTTANAAGGTTTGGAGGCTTAGGCCCTTAATTTTTAAAAAACTAAAAAGGTTTCAA  
AAAAATCCAGGTGGGGTGGACCATGGAAGGGAACCTTAATTTAATTTAAAAAGGTGGCTT  
TAAAAGCCCCTTGGGGTTTTTAAGGAAAGTTTCTAAAAGGAAAGAACCTTAAAGTGGG  
GAAAATTTTGCTTANTTAATTGGAAAAAANGCCATGGAAAAAGGAATTTAAANGAAA  
AANCCCTGGGGCCTAAAAAGGGGTTCGAAGGGGTGGCCCCCAAGCCTTTCCGAAAGGN  
AAAAAAAAGTTTNGGGGGCCCTTTNTTAAAGGGGGGAACCCGGGGGGGAAANGCCATTT  
TAAAAAAGGGGCCACCCAAGNAAAAACCTTTTTTAACCAATTTTTTTNGGGGGGGGGGG  
GTTTCAATTTTTTTTTGGGTTTTGGNAAGGTTAAGGGGTTGGAAAAAGGNTTGGAAAGG  
GGGGGGAATTTTNGGGGGGGCCCTTTTNGGGAAATTAATTTTTTTGGGGGGCCCTTG  
GGGGCCCCCCCCCAATTTCTTTTNTTAAATTTGGGTGGGGGGGGGAAACCCCTTCCA

Table 1

AAAAAAGGGGTTTTTAAAAAAAAAAAAACCCCCCAACCCTTGGGTTAAAGGGGG  
GTTAAAAAAAAATTTTTAAAGGGNAAAAAGGGGGGGGCCCAAGGGCCCTTTCCTTTT  
GGGGAAAAAATTNCCTTNGGGGGGGGCCCCC

Sequence 3469

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGGGGGCCATTGAGACTGCCAT  
GGAAGACTTGAAAGGTCACGTAGCTGAGACTTCTGGAGAGACCATTCAAGGCTTCTGGCT  
CTTGACAAAGATAGACCACTGGAACAATGAGAAGGAGAGAATTCTACTGGTCACAGACAA  
GACTCTCTTGATCTGCAAAATACGACTTCATCATGCTGAGTTGTGTGCAGCTGCAACGGA  
TTCCTCTGAGCGCTGTCTATCGCATCTGCCTGGGCAAGTTCACCTTCCCTGGGATGTCCC  
TGGACAAGAGACAAGGAGAAGGCCTTAGGATCTACTGGGGGGAGTCCGGAGGGAGCAGTC  
TCTTCTGTCCCGCTGGAACCCATGGTCCCTGAAGTTCCTTATGCTACTTTCACTGAGCAT  
CCTATGAAATACACCAGTGAGAAA

Sequence 3470

NCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTT  
TTTTTGGTCTCTGAGCATTGCAATTTCAACTGTGGTCCCTGGCCACAGTTGTCTTCA  
GGAGTTGAAATGGCCANAAAGGGAATATCTACATGGTTTATCCTTGAGATGGCAAAGAC  
ATCTGCACCAATGCACCAACCCACCGGGAGCATGCATTGCTAGCAGGTGAAATTCACATG  
GAAAAGTAGGATTGTGGGTTAGGGTAAGAGATACAGCAATGGTTACAAGTGCAGAATTTG  
GAGGCAAGTAGTCCTTGATTAGAATCCCAATACTAGCATTTGCTAGCTGCATAATCTTGG  
GCATGTCACTCAANCTTCTCTCTGAACCACCCTCTCTTTACCT

Sequence 3471

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCCATCAGCGTTGCACC  
CATCTCCATAGTTGTAGTTTCCACACACTTATACAACCTCAAATGTTCACTTTACTGTGCA  
GTCCATTCCCTCTGTTTTGTGATTTTGGAAATCTTCATAATTTACGGTCTACAAAAC  
ATTATTTGTTTTCAAGGAAGTCGTGTTATATTTCTGACTGTCTTTCTCTTATTCT  
AGAATTCAAGCCAGGAAGAAGCAGCAATCTGTCTTCTGGATTAAACTGAAGATCAACCT  
ACTTTCAACTTACTAAGAAAGGGGATCATGGACATTGAAGCATATCTTGAAAGAATTGGC  
TATAAGAAAGTCTAGGAACAAATTGGACTTGGAAACATTAAGTACATTCTTCAACACCAG  
ATCCGAGCTGTTCCCTTTGAGAACCTTAAC

Sequence 3472

AGGTACCCCATCAGCGTTGCACCCATCTCCATAGTTGTAGTTTCCACACACTTATACAAC  
TCAAATGTTCACTTTACTGTGCAGTCCATTCCCTCTGTTTTGTGATTTTAGGAAATCTT  
CATAATTTACGGTCTACAAAATATTATTTGTTTTCAAGGAAGTCGTGTTATATATTTT  
TGACTGTCTTTCTCTTATTTCTAGAATTCAAGCCAGGAAGAAGCAGCAATCTGTCTTCT  
GGATTAACAACTGAAGATCAACCTACTTTCAACTTACTAAGAAAGGGGATCATGGACATT  
GAAGCATATCTTGAAAGAATTGGCTATAAGAAGTCTAGGAACAAATTGGACTTGGAAACA  
TTAACTGACATTCTTCAACACCAGATCCGAGCTGTTCCCTTTGAGAAC

Sequence 3473

CCGCGGTGGCCGGCCGCCGGGGCAGGTACCATTGCATGCAGGCGTGAGTGATCACAGCAC  
GTCCCAGGAACTTCAGTCATGGTTTTATCTGTATTCCACTTACCATGGCTGTGCAATAA  
CTACTGCCAAAACACACTAGTGTAACAACCATCCAGTTTCTTCATGGATATTATAGGT  
CAAGAATTTGGACTGGGTGCAGGGGAGATAGTTTGTCCCTGCTCCATGACCTCTGGGCCT  
TGGCAGGAGAGCGTGAAGGCTGGGGCAAATCACCTGAAGGCTCACTCCCTTGTGTGCCTG  
GCAGTTGATGCTGGCTGTCAGCTGAAGGCCTCGGTTCCCTCACATGAGCCTCTCTGTGCG  
GTGTCTCCAAAGGCTAGCTCGTGCTTCCCCACTGCATGGTGAAGTGGGTGCAAGGACAGGC  
ATTCAAGGGAAAAAGAGCCAGAGGA

Sequence 3474

ATACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGGCAGGTACAGTAGTGG  
CAACCAGCCGGGAAATCCATAGGATCATTTTCAGACCGCATTCAACACAGATACTCATGT

Table 1

AGCCCCGACGTTTCTTGTGAAGGGAATTGATGTATTGCTTGAGGGGGTTCGATCTCTGGTT  
CTAGGGTGTTTTGTTTCCATCGTGACTACCAGAAAATTATAGAAGGCCAGACGCAG  
TGGCTCATGCCTGTAATCCCAGCCAGTTTTCTAAAGTTTTAATCTGTCTCCTCCACTAG  
GCCATGGGCCCTAGGAGGAGATTGTCTCTAGAGGGTATCCCCGTGTGCCTGGCACATGCAT  
GCAAGTTATGATTTATGTTGATGAATGAATGAATGAATGAATGAATGAATGAATGGTGGA  
TGGGTCCTCTGAGGCTCTAGAAATA

Sequence 3475

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTT  
TTTTTTTTTACAGCAATAAAAACGTTTAATACAGGAAATTATTTTGTGTACAATAT  
AGGCAGACAGTTTGCTTCAGAAATCCAGAAATGCAGCTTTTGAGGGAGGTCAGCATCAT  
TGGTCTCAGCTACCATTTTCTGCAGGATGTTTATAAATAGTTCTTGGCAAAGGAGGTTG  
COGTATAGGGTCCTACAAGTAACCTAGGTGGCAGCATNTCTCCCAGCGTCAGGTCTAAG  
CACACAAGTTCTTCTTCCATCTACCCCCGCGTACCT

Sequence 3476

CCGGGCAGGTACGCCGGGGGAGGAAGTGCAGACTGACATGGGAGAGNATGGCAGGCAAAC  
TTAGCCTGTAAGGGTGGAGGTGCTGGAGAGACACTTCCTGCAGGAAGTGGCCTGTAGGCT  
GATACTTGAAGAATGGTTAGGAGTTAGGCAATTGGGGTGGGAGGGAGGAAATGAAGCTGA  
GACAAAGAATAGCAAGGGCCAAAACCTAGAAACAAGAGACTGTAAGCTATAGCAAAGGAA  
GTGGGGTAATGCATGTTTTAGGTCCTGTGTGGGGTGTGTGTAATACACATGCCGGGGTG  
TGGAGCGTGATGAGAGACAAAGCTGAGAAGTGTGGTGGAAAAGGAAGAGAGAGCTGAGGC  
AGACGATGTAAGATCTGCTGTTACTTCTTGTGTGTGACCTTGGGTGAAGTGAAGTGGGG  
TGTGCCTGGGA

Sequence 3477

GGGCGANTTGGAGCTCTTCGCGGTGGCGGCCGCCCGGGCAGGTACTTGGCNCNTTTCCTG  
AGCCANNACTTCATTATTTTCTTGTCTGTGAGTCCTAATAGATATATTTAGAAACACT  
TCTATGAAATATGGAATCCAGGCTTAACCAGCTGTTTGAAATCACAACCCACAACCACTT  
TGCTGGGTGTGTGCTCACACACACACACACTGACACATGCTTGCTATACATACATACA  
CACAGTTTCCATCTTTTTTTTTTTTTTTTTTGGAGACAGAGTCTTGCTCTTTCGCCCAGG  
CTGGAGTGCACTTGGCTCACTGCAACCTCTGCCTCCCAGGTTCAAGCAATTCTCCTGCCT  
CAGCCTCCCAAGTAGCTGGGACTACAGGCACGTGCCACTACACCCGGCTAATTTTGTAT  
TTTAGTAGAGACTGAGTTTTGCCGTGTTGGCCAGGCTGATCT

Sequence 3478

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGGTATGACCTCAGCATTCTAAAG  
TGCTGGGATAAAGTGTCTCACAAGGGCAAGTGACCCTAGAGAGACAGCCATCCCTGACC  
TCTGGGCTCCACATCACCTGACTTGCTGCTCCACCACTTTGCTTGTTTCTGGGTGCTCC  
ATCCAGAGACAAGTGAGTTAGCAATCACTTAGTGTAATCAGCCCAGGATGGAGGGTCTG  
TGCTGTGGGCCCAAGCCAGGTTCCCTGTCTGGTGATGAGTAGTGGAGGGTGTGTGGTAC  
CT

Sequence 3479

CCGGGCAGGTACGCCGGGGAGGCATTGAGGCAGCCAGCGCAGGGGCTTCTGCTGAGGGGGC  
AGGCGGAGCTTGAGGAAACCGCAGATAAGTTTTTTCTCTTTGAAAGATANTAGATTAAT  
ACAACTACTTAAAAATATAGTCAAGTAGTGTTTACTAAGAATATTGCTTTANCCGTTTA  
AGTTTTTTAAACGTTAAATTTTTAAATNAGGCTTTAAGAATTTTTTNANCGAAGNAAA  
NATTATGGAAGGAACTTTAGTANNNAANTTANNCATTGAANGNAAATGGGNAAAAAAGAA  
TTAAAAANGGGTTTTCTTAAAAAACCATTTGTACCGNGAAGGGTTTGTAGAATTGAAAAG  
CCTTTCTTTCATTGGGGAGGTTTCATATNAAANNTGAATATTACNACATACACATTATAGG  
TTTTCCCTTNNGGNCNCGCCCTTCTTAAAGAAAACCTANGTTTNNGGAATTCACCCCCC

Sequence 3480

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCTTGTTTAACCATCATGAGGTG

Table 1

ATCCCATCACCTTCACAGCCCCAGCCTCTGCTCCAGTCCCTCCCCAGCGAAAAGGGCCGC  
 CCATGCCATCCTGCTGCTGGTGATTTGCTTTGTGGTCATGGACTCAGTGGACATCATTAT  
 TTTATTAACCGTGTGGTAGGTTTTAACTCAGTTATCCTGGATATCCAAAGTTTGTGGT  
 CCATCTTTAGGCTTCCGTTTGTCTTTGGTACCTGCCCC

Sequence 3481

ACTGCTGTGGGCTGAAGGGAGGAAGATGGTGTCTGCAAACCAGGAAGCAGCCTTGCCAGA  
 CACAGGATTGGCCACAACCTTGACCCCAGACTTCCAGCCTCCAGAACTGAAGGACTGAGT  
 TCATTTTCAGCGTGTCTGGCTTTTCCATTTCTGTGGCCTGGGAAGGAATTTCCCTGCACA  
 GGCTCTCTTGCTGCCACCATGTAAGACCTGCCTCTGCTCCTCCTTCACCTTCCGCCATG  
 ATTGTGAGGCCACCCAGCCATGTGGAAGCTCTCTACTGCACTGAGAAGCAGGTGTTCTC  
 CATTCCCTGGGGGAGACCATTGTATTGGGCAGTTTGAACAAAAACACCATGG

Sequence 3482

CCGCGGTGGCGGCCGCCCGGGCAGGTACCTCTCTGTTCCCTCCCTCCACCTTCCCTT  
 CCTTTCTGTTTTAAGATAAGGTGTTGATTTGGAATTCAGCAACTGCAAGTCCATTTGA  
 AAGAAAGTCAGTTTTGTTAGAGGCCTGGATAGAGCAATATGTTGTAACCAAAACACACGTG  
 AACATTCTGTGGCTGAACATAAGAAATTGTGCATTATTAACGTTGTGCTTCAAGGTGGAA  
 TGCTGAAAGCACTTGGAAGTAGTTGCCAGAGAAGAGCTCACTGAAACATTATTAGCTT  
 TATATATCCACTTGTAGAATCTCTGTGCAGTGATACATCCCTCCCTTTCATCTTGATCAT  
 AAATATAAGACTTAAAGGAGGCAGAGTGAAAGTGCTTAGGAAGCCCACTGAGAGCTCTCA  
 GAAAGGCGCTTAATACCTTTCTTAGTAAGTTGAAAGTAGGTTGATCTTCAGTTTTAATCC  
 AGAAGACAGATTGCTGCTTCTTCTGGCTTGAATTGAGGTTATTTAGCCGGCAACCAGG  
 AACTAGACTGAATGCAATCCTCCACATCCAAGGTCCCCGCGTACC

Sequence 3483

CCGGGCAGGTACGCGGGGGGGGGGAAAAANCCAAAAACAACAACAAAAAACTCTCTTACAG  
 AATTTTCTTAACATTAAAAAACTTGTGCTATTTTTCAAAGGCACATTTGATACTCAG  
 AATTGCTAAAAGTATATTTAAAGACATCTAGCCTTCCATATGTAAAAAATATTTAGATA  
 AAGACAGGNACAGGACTCAGAATAATATATTGGGTGATTCACTGTATCCTCCACTTTTAC  
 ATTTAAAGAAATTCAAAATACGTGATTAAATTTTTTTTTTTTTTAATGGATGGGTTGGTTC  
 TCGCTTAACCACTTGGGTGCTAGTGGTCTTGAAGTGTGATACAGTGTAGACAGNATTTGT  
 AACCTTGACACAGCCTCTGGGGGTAAGTGTCAAAGTGTGAGATTAACTT

Sequence 3484

GATCCCANCCTTTCTAGGGCTGGGTAGTGGGAACCTCCCAAAATTGGAGTTCGGGTTAGG  
 AAATCCTCACATGCAGTTTGGGAGAGGCTCAGGAGGAGGAACCTGAGCCATGTCTCTGT  
 TCTGCAGTGAAAAGAAGATTAAATATGACCAGTGCTTGATCCCAAACGCCCTGCTGGAGC  
 TGGCCCTGCTTGCTTATGGAGCAAGACAGAAACCAAGAGGCCATCAAACCTTTGGAATCT  
 GCCAAGTAAGGCTTGGGTAACCCTCAGTCTGTCTTTTGTCCCTCTGAACTCAGCTCAA  
 GGAGCTGGCTGGGGACAGAGTTGCCAGAGAGCANTGAGTTGGAGTTGCTAGCAAAGGCC  
 AGTCTTGGCAGTCTAGAGGGTGGACCTTGTGTCCCTCGAATCCAGCTCTCCCTGTGATA  
 GGAAGACTTNTTCTTAATGTATAAATGCCCCAGTTTNGACTCCANAAGNCAGGAAGTA  
 AGTTCCCAAAGGTTACATCANAAACCAACTGCNTGGCTGNGGTGAAGACCATTGCCTCC  
 TNGCTTTCCAGGTAGGGGGNCTATTNCCCTAAAACAC

Sequence 3485

CCGCGGTGGCGGCCGAGGTACAGGGCCCTGAGATGGAAACATGCCTGATGGGTTCAAGAA  
 TTAGGTCATTGGCCAGTGTGGTTGAAAGGAATGATGGGTGGGGAACGTAGTAGGAAATGC  
 GGCTACAAAGGAAAAGAGCCAGAACTAAAGGCTCCTGAAGGCAATTGCTAGGATTAAGA  
 CTGGAGAGCCATTGGAGGCTTCTACTCAGAAGATTGTCATGGTGTGGCTTAGGTTTTTAA  
 AAGAATTTCTCAGCATGTTAGTTGGCTTGGGCTTCCATAACAAAATGCTACATACTGGGT  
 GGCTTGAACAACAGACATTTATTTCTCATAGTTCTGGAAGCTGGAAGTCCAAGATGAGT  
 ATGCCAATATGGTCAGAATCTGGTGAGGGCTTCTTCTGCTGGCTGCAGACAGCCACTTC

Table 1

TCCCTGTGTCCTCATAGGGTGGAGAGAAAAACAACATCTTTGCTGTGTCTTCTCATAAGGA  
TCTTATCAGATCAGGGCCCTCCCCTTGTGACCTCATTAAATCTGAGTTACTTCTATAAAG  
TCCCTATCTCACATTAGGGGTTAGGGTTTTAGCATATGAATTTAGTAGGGAGACAATCCA  
NTCCATTGCATTGTANCTGATTTGGAAATAAAGATT

Sequence 3486

ACAAACACAAAAAGTTTTATTTAAAAAAGAGTTTGACATTTAAAAGTTTGAAATAATA  
TTAAAGTGACACCCTGTTTCCTTGGAACACAATGCAGAACCACAACTCTGAGACTTAT  
TATAGCGAAAGTATTGCCATTCAATTCAATGGNATGAGGTTAGCTTTGGAGGCCA  
AAAGAACTAGTTTTCTAATTTCTTATTCTTCTCCCCACTAGACTTGTGGCCTAGGTAATTT  
TGTAATCTTTCTGAGTCTGTTTTCTCATCAGGAGCAGGATAATTCCTAAGTAATAGATCA  
TATGTAGAAGTGAATATGATCTCATGGCAATGGACATCAACCATAGTTAATTATTAAGAA  
TATATTTACATTGAGCTATCCTTTATCTACTTTAAAATTGCAGACNAACAACAATTGACA  
AGAATAGATAAAATGTTCTAACATAAACATTCTCCATTCTTTCTAGGAAGAAGNCACA  
CATACNGTAAAAAATAATTAGAGAGGACCCAGTTCATATCGAACAACTTCCCC

Sequence 3487

AGGTACTGTGTTGACCACTTTTTGAGGCTACTTAGGACCTGAGCAGAACTGAAATGCATT  
TGGCTCCATGGGAGAACCACAAGCAGCTCCAAATTAACCTCTTAGAGACACAACACAA  
GTATAAACAAAGCCTGAGCACTTCTTGACCAAAAGTCACATTACAAGCTCTCAGAGGCAC  
ATGCAATTTTATTTGCTTCTTACAATTTAAACTCTGAAAGTTTAAATCCTTAAAAAGTT  
TTCTATTGTAGCTCATTTTTTTTAAACATGCTACTAAAATATAAAGAGACTTTATTGTGCC  
TAAGAACTTGCCTGTCACGATCTTATCCACCAGATGATACCTTGCCTTAAATGCTACA  
AGCCGGGCATAATATGCAGGGGCTGGAATAGAGACGGAGCGAGTGCACCTCACATAGGTG  
TGACACAGCTGGTAAGTCAGTAGCTGGAGTTTCTGTCAGTGAAGCAGTTGTCATCCAC  
AAGACCTGGTAATGTGAGGGACGGCTGGTTCTGAGGAGAGAGTTTTATGATTAATGTTT  
TTTTTTTTTGTTCGTTTTTGGTTTTGGTTTTTTTTTTTT

Sequence 3488

TTTTTTTTTTTTTTTTGGAACAAACACAAAAAGTTTTATTTAAAAAAGAGTTTGACA  
TTTAAAGTTTGAAATAACTATTAAAGTGACNCCCTGTTTCCTTGGAACACAATGCNNA  
ACCACAACTCTGAGACTTATTATAGCGAAAGTATTGCCATTCAATTCAATCTAATGGTA  
TGAGGTTAGCTTTGGAGGCCAAAAGAACTAGTTNCTAATTTCTTATTCTTCTCCCCACTA  
NACTTGGGGCCTANGTAATTTNGTAATCTTTCTGAGTCTGTNNNCTCATCAGGAGCAGGA  
TAATTCCTAAGTAATANATCATATGTAGAAGTGAATATGATCTCATGGCAATGGACATCA  
ACCATAGTTAATTATTAAGAAATATATTTACATTGAGCTATCCTTTATCTACTTTAAAAT  
GCAGACAAACAACAATTGACAAAGAATAGATAAAATGNTCTAACATAAACATTCTCCAT  
TCTTTCTAGGAAGAAGTCACACATACAGTAAAAATAATTAGAGAGGACCCAGTTCATATC  
GAACAACCTTCCCCAAACCC

Sequence 3489

CCGGGCAGGTACTTTACTCACCTTCTCTGACAGAAAAGGATGAAGTCAAGGGCCTGGT  
AGAGGCCACCACTAAGAAAGGCATCTGAAAGGACCAAGAGAGTGACCAGCAAGCATTTTT  
TGCAAGGCTGAGGAGCTGACAGCTTCCATGAAAGGCTGGACCACCCAGTGGTGAAAAGCA  
TCATCTGGGTTACCTTGTGCTGCCATAAAACACACCACAGACTTGGTGACTTAAACCACA  
GATATTTATCTTCTACAATCCTGGAGGCCGGAAGTCTGCAATCACGGTGCCAGCATGGT  
CAGGTTCTGGTGAGGGCCTCTTTCTTCTCACTGTGTGCTCTTTCTTGTGCATGGAGAGA  
GAGAGCATGAACAAGCCCTCTACTGTCCCTCTTAGAAGGGCACTAATCCCATATAAAGGC  
ATCCACCCTCCTGACCTCGGCTAACCCTAGTTAAGTACCT

Sequence 3490

CCGCGGTGGCGGCCGAGGTACCCTTCCACCATAGCTGTAATCTTCAAAAACAGGAACACA  
GTGACAGAGACTGTTAAAGGAACCTTCACTGAAGGTAAGAAGAATAACACAAATTTGA  
AAAGGGCCTCTATCAGATATAGGGAACTTCTAATGACCTGGATTGAATACCAGACACAG



Table 1

AAATGTATCCCTGTCAGCACGCTGAGTATCATGGCCAAAGTATAAAGTTTGTGATGTTGA  
AAAAAAGGCTGGATCTGACTATGATGTCAGATGTTAAATTTACTGCTAGCTCTGGGTGG  
TTTAAACAATTCAGAACCATTATTACATACATAATGTGAAAGTGAGTGCTGAGTCTGTGA  
GTGCTAATGTTAAGGCAGCTGGAGAATTTAGAAACCCTAGATAAGCTAATTGTGGAGGAA  
ATTTACTTGCCAAAGCAAATCTTCAATGTGTATGAACGCTCCCTATTCTGGAAATGGATG  
CTGAAAAAGATATTCATCCATAAGGAGGCCAAGTCAATGTCAGGTCTCAAGCCTTTTAAG  
AACAGGATAAAAAGTCTTGCTTGGGGGCAATATTTCAAGGCTACAAATCAAACCCCTTTGTG  
ATCTGGCACTGGACAAACCCTGGGGCCTTCAAGCA

Sequence 3491

CCGGGCAGGTACACAAGAAAGTTCAGAGATGAGACCTCTGGTTGATTCCACCTTTGGGA  
CATGGGGGATGTCTTTAGTTCAAAGTCACAAATAAATGCAGGTTCTACAATTCAGAGGCT  
TCATATCCCTGCTGGAGTATTACATGTTTATTCAAGGATGGACCCTTTTCTTAGCAACAG  
TTTCTAAACCTTTGCCAGGTCTGGGAAGTCTGGCAGGAGAGATTTCTAAGAACCAATCAT  
TCCTGCACACACTTCTTGAAGATAATATACATTATCCCTAGTTATCTCTTCTAGGTTT  
TTGTAGGCTCATTTCAATATTACAACAATCTTTATTGAAAACCCCAAGTATTTTGTCTT  
GAAAAATCAGCAATCCAGGTATTAATAATAGCATGGAATGCCAATTTTACTTTGATAAT  
TACATGGTAGTCAGTTTCCGCTCCTGGCTAAAGCCTTGGATTTTCTTCTGGGCAGTTTCT  
AAAGGCACAGGTGGCATGGAAGAAATCATTCCATTTTCATCTCCTCCCTTATTTGATTG  
GTGTCTGGTTACCAAAAGAGTCATCAGGCCCTTGGATTACCTTCTTGAAGTATCTTCTA  
GATCGCAAGTCTAGGTT

Sequence 3492

AGGTACGCGGGGGCCTGATTATATGTGGCAACTGCATGTAGAGAAATCTAATTGCCATA  
CCTTCCCTTTTCTAATTTCTTTTAAACAAACTGCTTTTTCTCTCCCTTTGGCACTAATTG  
GTAACATTGCTTCTTCCATCATAGCCCTGAATTATCAGATCTCTCTACCCAGCAATGGT  
TCTATTAACAACCTCAATCTTAAACACAGCCAAATAATTAACCTCAAATTTATTTTTTC  
TTCTCCCTACCCCTTCTTTTACAGCCAAAGAACCTGAAATTGGAACTTAAATGTTTC  
TGACATAACTCCCGAGAGCTTCAATCTCTCCTGGATGGCTACCGATGGGATCTTCGAGAC  
CTTTACCATTGAAATTATTGATTCCAATAGGTTGCTGGAGACTGTGGAATATAATATCTC  
TGGTGCTGAACGAAGTGGCCATATCTCAGGGCTACCCCTAGTACCTGCCCC

Sequence 3493

CCGGGCAGGTACATAGAATTATTTCTTCAAGTATAATTCAAATAATATGGACATTATCA  
TGTTCTGCATTACAATAATGGGATGTCATCACCATTGCTAGAATACTGGCATGATCTTC  
TGAGCAGAAGTTGAACTGTAAATTTAAACCTTTTAATTATCACCTTACCTGAAAGAGGT  
TAGTTAAGATATTACACAGTATGTATTATTAACCATATCACACTTAAGTTATTAAT  
TCAGACTATTTGAACTTATTGTTATAGGGCCTGCCGTATGGCTTAGGATATTTGAGTAA  
TCATATATTTAAAGTAAAACTTTGGGCTGGGCACAGTGGCTCACACCTGTAATCCCAGC  
ACTTGGGGAAGCTGAGGTGGGCAGATCAGTTGAGGTGAGGATTTAGACCAGCCTGGTC  
AACATGGCGAAACCCCATCTCTACTAAAAATACAAAAATTAGCTGGGCGTGGTGGCACAC  
ACCTGTAATCCCAGTTACTTGGGAGGCTGAGGCACAAGAATCGCTTGAACCCGGGAGGCG  
GAGGTTGCAGTTAGCCAAGATCGCCCTGCTGCACTCCAGCCTGGGCAACAGAGGGAGACT  
CTGTCTCCAAAAAC

Sequence 3494

AGCGGCCGCCCGGGCAGGTACAGGATGGGAAGGCTTTGCTATGGATCCCAGCCTTTCTAG  
GGCTGGGTAGTGGGACCTCCCAAAATTGGAGTTGCGGTTAGGAAATCCTCACATGCAAT  
TTGGGAGAGGCTCAGGAGGAGGAACCTGAGCCATGTCCTCTGTTCTGCAGTGAAAAGAAG  
ATTAAATATGACCACTACTTGATCCCAACGCCCTGCTGGAGCTGGCCCTGCTGCTTATG  
GAGCAAGACAGAAACGAAGAGGCCATCAAACCTTTTGAATCTGCCAAGTAAGGCTTGGGT  
AACCTCAGTCTGTCTTTGCTCCCTCTGAACCTCAGCTCANGAGCTGGCTGGGGACAGAGT  
TGCCAGAGAGCAGTGAGTGGAGTTGCTAGCAAGGCCAGTCTGGCAGTCTAGAGGGTGA

NOT FURNISHED UPON FILING

Table 1

CCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTACTATTAGAATA  
 TTTGCTCTATGCGTTTCGACATTCGTTCTGCTCACTGTTACACGTCCTAACACCTAGAA  
 GAATGCCTACCACATGGTAGGCATTAGTAAATATTTCTGAATAAATGAATAAGCAAAAG  
 AACTTTGGAGCCACAGACAAACCTCAAAAACAGGAACTTGAAAAATGCAAAAACACAT  
 AAACCCCGACTACAAGTGCATGGTCTTTGGCTGACCATAACCTACAACCTGACTGTAATGA  
 GGAAAGCACGCCCTTTTTTTTTTTTTTTGAGACGGAGTTTCGCTTTTGCTATCCAGGCTGG  
 AGTGCAATGGTGCAATCTCGGCTCGCTGAAACCTCTGTCTCCTGGGTAAAGCAATTCTC  
 CTGCCTCAGCCTCCTGAATAGCTAGGACCACAGGCATGAGCCACCACACCCGGCTA

Sequence 3500

CCGGGCAGGTACATGAATGTGCAGAGTGTGACTCAGTTTCCAAGCTCACTCATGTGGCTC  
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 ACACCTGGCTTTTTTTCAGAGTAAGTGAAGCAAAAGCCAGAGAGGCAGAGCCCCCAAGATT  
 GAAGCCACGGACTTTTTTTGAGACAGAATTTTGCTCTTATAGCCCAGGCTTGAGTGCAGT  
 GCGCTGGTCTCAGCTCACTGCAACCTCCACCTCCTGGGTGCAAGCAATTCTCCTGCCTCA  
 GCCTCCCAGTAGCTGCCACAGACTTTTTATGACCTAATCTTGATGTACCT

Sequence 3501

AGGTACGCGGGTCTTCCACCATGTGAGGACACAGCAAGAAGGGGCTGACTCTGAACCA  
 GGAAGCTGTGCTGTGCTCACCAGACACTTTGATCTTGGACTTCTCAGCCTCTAGAAGTAT  
 GGGGTTCTGCTCTTGTACCCAGACTGGAGTGAAAGTGACAAATCTCGGCTCACTGCAAC  
 CTCCGCTCCCGGGTTCAAGCGATTCCCTGCCTCAGCCTCCAGAGTAGCTGGACTGCAG  
 GCGCACGCCACCACTCCTGGCTAATTTTTGATTTTTAGTAGAGACGGGGTTTACCATG  
 TTGGCCAAGATGTTCTTGATCTTCTCACCTTGATCCGCCACCTCAACCTCCCAAAGT  
 GCTGAGAGACTAAGACACCTTTCTAGACAGAGAGGAGGCCGATGGCAGACATTCTCAGAT  
 AGGTTTGTAGCTATTGACCTGGCTTGCATCAAAGGAGATGAAATCCCTTAGAAATTTGAC  
 AGCTTCTATGAAAATTTACAATCAAGAAGGCATAAGAACAAGTCTGCAGCTTCANAAT  
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Sequence 3502

AGGTACGCGGGGCGTTTCGTAGATGGAAGGAAGAACTTGTGTGCTTAGACCTGACGCTGG  
 GAGGAGATGCTGCCACCTAGGTTACTTGTAGGACCCTATACGGCAACCTCCTTTGCCAGG  
 AACTATTTATAAACATCCTGCAGGAAAATGAGTCTATATGTCAGAATACACATTTCCAC  
 CTTGCCCAACAGTAGAAAAACATAAGAAGAGAAAAACATTAAAAAATGACAAGGAAGTTA  
 ATGGAAGTCAGCAATGTGATGGTGTGGAGGTGGAGCCTTCAGAAGGTAATTAATGCC  
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 CCGGCTGTCTGCAACCTGCAAGAGGACCCTCACTAGAAGCTAGCCATACTGGCATCCTCA  
 TCTTGGCTTTCCAACCTCCAGAAGTGTGAGAAGTATATGTTTGTGGTTTAGTCAATGGTC  
 TATGGTAATTTTTTATAGCAGTCCCAGCCAAGACAGTGCCTCATTTACTACATAACATT  
 TATATTATTATAGGCTCCTTTCAGAAACCATGTTCAAATAAGAGATAAGATACTGAA

Sequence 3503

CCGGGCAGGTACAAGCTGGCATACCCATTGGGATGGGAGGACTCTGGGCTTTCAGAGCTT  
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 CACATGGGTGCTGTATTTCAACCTTCCCTACAATTAGTAAAGTGTGGCCATACAAGT  
 ATCATGACCAGTGGAAGTGAAGTGGGAGAATTGCCTTGGCCCCCTCATGGGACTCCTCAC  
 AAAGGGGGTGGCTCATTTACTCAGCCACCATGCACTCAACCCCTTACAGGAAGGAGAGA  
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 TTACAGTGTTCTTTAGCTTTGCCATCCATGGATGGCTAAGTGTTAAACCAACTCAGTGGA  
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Sequence 3504

CGACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAGCAAGCA

0

AGAGGAAAGCAGACCCATGGCTCAGGACACATGGGAGTCCCACCAGCTTGAAAAAATTT  
CACAGAGCTGGCATTTCATCAGTGCAGACACGGCTCTGAAACAGTAATTGCTGCCTTA  
TGGGCATGATACGCCCATTTCTACTCTGACCTCCTCCCAGGAGAACTCTTCTGCAATG  
ACCACAGTACCTGCCCCG

CCGGGCAGGTACCAAAGAACAAACGGAAGCCTAAAGATGGACCACAAACCTTTGGATATC  
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CATGACCACAAAGCAAATCACCAGCAGCAGGATGGCATGGGCNNGGCCCTTTTCGCTGGGG  
AGGGACTGGAGCAGAGGCTGGGGCTGTGAAGTGATGGGATCACCTCTGATGGTTAAACA  
AGAGTACCT

AGGTACCAACCGGATGACGGGAATACTTCAGCTGCAATAGGTCCCCAACTTCATCTATCTC  
CTTTAAAGCAGTATCAAGTATTTCTTTGGTATGAGCTGCTGACAGGCCAAAACCTGGCTCT  
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CATCTCCCGTCCAAAGGTGCCAATTTGGCAGGCATGTAGAGCATCAAAGGCACTACTGG  
AGAGTCTTCATTTCCATAGACCCGCGTACCTGCCCGGGCGGCCGCTCGACCTGGGTCTGC  
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TGGTCCCTGGGACTGCCCTCCACTGGGACAGTTAGTCTGAGGTTTGTTCCTTGGTTGAGT  
AGTTACTCTGTGGACATAGACTAGTCATTATTTCAGGGGTTCTGAAATGTCTGTGTG  
TGGTCAGAAGGAGGCTTGACCCCCAGAAAGCAACCTCTGCTTCCTGCCTAACTAAACA  
GGCAGTGATGGTCTCTTCTCCATCTGGAGAAGCTTGGG

CCGGGCAGGTACGCAGGGAGCCCCTCATGGGAGCCGGACTCCCTGAGACTCAAGAAAATG  
CACCCGTCCTGCGTTCCTCCTGCCTGGGGTGACCCATAAGGAACACCCCCCCTTCTCAA  
CAACCACAGAAGATAAATGCCAAGGGGACCACCAACATGGGCATGGGGCTGTGATGCCAA  
TCTTAAGGAAAAACACAAGTAAATTTGGCTCCAGGACTGAGCTGGGGGCAGCTGCTCTTT  
CTGTCCATGACTTTGAGGCGGGATCTCGAGCGTCTGTCTGACGGGCCCTCTGTCTGCTGT  
CCTCTCGCAGGTTTCAGACATTGAATCCAGGATTGCAGCCCTGAGGGCCGCAGGGCTCAC  
GGTGAAGCCCTCGGGAAAGCCCCGGAGGAAGTCAAACCTCCCGATATTTCTCCCTCGAGT  
GGCTGGGAAACTTGGCAAGAGACAGAGGACCCAAATGCAGACCCCTTNAAGTGAGGCCAA  
GGCAATGGCTGTGCCCCATCTTCTGAGAAGAAAGTTCAGTAATTCCTGAAAGGTCA  
AGGNAAGATGATNGATTCTTTT

CCGGGCAGGTACGCGGGGGCTTTCTCTTACTGATAGTAGGATATTTCTGCTTTAGTTATT  
GTCACCTTAAATATATTTTCAATGTTGAAATCCTCACAGCATGTTTGATGAAATCTAGTT  
TTCAAATTTTCTTAGGTATATTTCTTGTCACGTTGGCATGATAACAAATGCAATAACCCA  
AAAGACCCCAAAAGCTAGTGTANTCCCTTTTGCAATCCAAGCATCAGGATTTCATCTTCAT  
GTTGACAGTGCGTGAATGTTCCGGTAGGCTTTGNCAGCTTGCATACAATAAATTATATAT  
GTCCCTTTTCTTTTANGGGTCTCCTGTTAAAGATGGTCTTCTGAAGGGCTAACTGCGGAA  
TGAAAGTTTCTATTCCAACCTAAAGCCTTAAGAATTGATGGACATGCAAACCTTNNAAAGC  
AGGAGCCTCCCGAGAAAGCCATCTGCCTTCGAGCCTGCCATTGAAATGCAAAGTCTGTTT  
CAAATAAAGCCTTGGAATTTGAAGAATGAACAAACATTGAGAGNAGATGAGATACTCCCA  
TCAGAATCCAACNAAAGGGACTATGAAGAAAGGTCTTGG

CCGGGCAGGTACACACAAAGACAAACCTGAACCTAATTTCAAGGAAACTTAAACCCATG  
CACAAATAATTGGTGAGCCTTCATTTCCCTGACITCAAGTTTCCATGTGAGGACTCATGC  
TCTCTCCACATTTCTTCTTTGGGAGGAGGGGAAGATTTACCTAATGGGTAAATTTGGGCAAG  
CACATTTAGTGTGCTTGTTTGGCTCTGAGTCTCTTTGCAACACTGTGCTGCCACAGTG  
ACATGAGTTTGCCTTTGACTGTGATGTCTGCAGGAAGCTGCCCTGCTCTGTGGCCATGTCA

Table 1

AGCAATTCTTTCTTTCAACTGCAACTGTGTGTAAGAGCTTAGTCTGAGAAGAAATGTTCA  
GAAGCTCACTGTGGCTGCACATCTGAGCCATGTCTTCCCATTAGTTGNCATGAGTCAGCA  
ATAAAGCGGGTATGTTGATGTCTATCAATCTAATTCCTATGTTCTGAACTCANGGAAAGA  
AATANGAGAATCA

Sequence 3510

GGGGCCATTGAGACTGCCATGGAAGACTTGAAAGGTCACGTAGCTGAGACTTCTGGAGAG  
ACCATTCAAGGCTTCTGGCTCTTGACAAAGATAGACCACTGGAACAATGAGAAGGAGAGA  
ATTCTACTGGTCACAGACAAGACTCTCTTGATCTGCAAATACGACTTCATCATGCTGAGT  
TGTGTGCAGCTGCAGCGGATTCTCTGAGCGCTGTCTATCGCATCTGCCTGGGCAAGTTC  
ACCTTCCCTGGGATGTCCCTGGACAAGAGACAAGGAGAAGGCCTTAGGATCTACTGGGGG  
AGTCCGGAGGAGCAGTCTCTTCTGTCCCCTGGAACCCATGGTCCACTGAAGTTTCCTTA  
TGCTACTTTCACTGAGCATCCTATGAAATACACCAGTGAGAAATCCTTGAAATTTGCAA  
GGTAGGAGGCATCTTGGGTATTACTCTCANATTAGCTTTGTTGCTGGAGCTATGTGCTTT  
CTAGGGACGTGTACTCCTAANCAAACCNNTNNNNNNNNNNNNNNNNNNNNNNNNNNNN  
NNNNNNGGTCCCTNNGNCCGTTTTANAAGTAGNGGGATCCC

Sequence 3511

AGGTACCATGCGGTCAGCCAAATGTGTAAGGAACCTGTTTTGAGAGGAGAGAAGAAAATT  
CTATAGTAGGCGAGACAGGCTTCTCTCTCCTGCTCCTCCTCCCTTTCTTTTCTCTCTCT  
CCTCTTTCTTCCCTCCTTCTCTCCTCTTTCTCTTTCTCTCACACAGTTCTACATTTCT  
GCACTGGGGGACAAACCAGGCTTCTGATCAAAGGCAATCTGAGACTTGGGTTCAAAAGCT  
TTGATGAAGATTGGTACCTGCTATGCAGATGGGGGGAGGGAAGAAGAGACTAGCCTAGGG  
GCTTTTATATTTCTTTAAAGCATCAGCCATTAATGGGCTAAGTTTACCACTGGGACCCAG  
AGAGCTAGTCCCCAAACACAAGCTCAAAATGTATGCATTTTCCAATTTCATGGTTTCAAG  
GACATGTTCCCCCGCGTACCTGCCCCG

Sequence 3512

AGGTACTAGGTTTTGGTTGGGTAGGAGAGACCAAAACCAGGGAAAAGCTTAGAAATCCTT  
TATTGGGGTTTCTGCAGGAAATGCAAGGCAGGTACAGTTAACAGCTTATTATTGGCTAG  
TTTGAATAATTCCAGTGGGCCCTGGGGCACAGGTATCTAGTTGTCTGGTCCCAGCTCTGA  
GATGATTTAAACAGGGAAATACTGGCTTAGTGTGTGAGAGTGAGAAAAGGAGCTGATTG  
TGGCTTTATACTTGGGATTCAATTGGTATGTATATGAAAGACATATTCTCAGTGGACCCCC  
TCACTAAACTGCCCAGGAAGGGCAATCTTTTCCAGGTCTGNAAGGCCCCCAGGNCCCT  
GCCCGGCCGCGCTCTAGAACTAGTGGATN

Sequence 3513

CCGGGCAGGTACAGTCAACATGCATGATGTGTAAGTCCATCTCCATAGGCTAGAGGCATC  
CTAAGTGCTGCAGACCAGACCTGGACAATAAATGTCAAGAGTCACCACCACCCCGAAAAG  
AACTAGAACTCTGTAGATCTGCTGAGGAGCCCAGTCATTAAATACAGGATGGGGTTCAC  
AGAGACTCAAGGTCTGCCTCTGAAGCTTTTCTTGGTAGGATCTGAAAACCCAGAAGATGC  
TTTAAATCCTCACCCTAGTGAACAGATGCAGGTTCCCTGGTCTTGGCCTGACTGCAGTC  
AGAGAGCCCAGGAGTTAGCTGGTTTTCTCCCTCCATTTTGGTGTGAAAAGAGCCACTGC  
CACAGCAGCCATGGACTTAGGATGCTAGAGTGCATGGTCTGGATGCAAACTTTTGCCCT  
GAAATGTGGCATCAACACAAATACAGAGTCCAGATTTTTTCATCTTCCTCTGGTGATGAC  
TCACCATTAGTGCCATACNTTGTAGGTGCTTATGAAATAACCCCTCAGCCAGGACAGCTA  
CTCTTCTGGAAGTGNAGGAAGTGTCTTATNCCTTTTTTTTTCANATTAA

Sequence 3514

CCGGGCAGGTACCCTGGACTCATACCTGAAAGCAGTGTTCAACCTTAGCAAAATCTCCAA  
CCAGCGCATGAACAATTTTCTACATCACAACGACCTGGTTTTCAAATTCAGCTCTCAAGG  
CCAAATCTTTTCTAAATTTAACCAGAAGTTCATCAGTTCACAGAGAAAGTAATCCAGGA  
CCGGAAGGAGCCTCTTAAGGATAAGCTAAACAAAGATACTACTCAGAAAAGGCGCTGGGA  
TTTTCTGGACATACTTTTGAGTGCCAAAAGCGAAAACACCAAAGATTTCTCTGAAGCAGA

Table 1

TCTCCAGGCTGAAGTGAAAACGTTTCATGTTTGCAGGACATGACACCACATCCAGTGCTAT  
CTCCTGGATCCTTTACTGCTTGGCAAAGTACCT

Sequence 3515

AGGTACTTTGTTACAGCAGCCTGAAAGGACTAAGACACCGACCTAGTCTCCCTGATGAAA  
AAGTTTCTCTCAGACTTCTACCCTTTCCAATGTGGCCAAAGCTTTTCATTCCGAAGAAGT  
TTCTTTCTGAGAACGCTCATTGTGTCGTTTGGCTTTCCCGTCTCTGCTTGACACATGA  
ACCAAAACAGAGGCAGCCAAAGCAGGGAAAAAATCCTAGGATCAGAGTCCACTCTA  
TGCCCTTTTGAGCTTCAAAGGAGAGACAAAAGCCAAAAGCAATGGAGGTCAAGCT  
GCCCGGTACCTGCCCG

Sequence 3516

AGGTACGCGGGGACTTCCTCATAGACCTTGGATGTGGGAGGATTGCATTCACTCTAGTTC  
CTGGTTGCCGGCTGAAATAACCTGAATTCAGCCAGGAAGAAGCAGCAATCTGTCTTCTG  
GATTAAGAACTGAAGATCAACCTACTTTCACTTACTAAGAAAGGTATTAAGCGCCTTTCT  
GAGAGCTCTCAGTGGGCTTCCTAAGCACGTTCACTCTGCCTCCTTTAAGTCTTATATTTA  
TGATCAAGATGAAAGGGAGGGATGTATCACTTGCACCAGAGATTCTACAAGTGGGATATA  
TAAAGCTAATAATGGTTTTTCAGTGAGCTCTTCTNTGGCAACTACTTTCCAAGTGCTTTC  
AGC

Sequence 3517

AGGTACTTTGTGGGTTGAGGGTAGGAGGCTAAGACTGCCAGGGAGGAGGTCCCGGCTTCC  
TGCTCCTACCGGGGAGCAGCAGGTGAAACTCTGACCACGTTACTGCAATCCTGACATGCT  
CCAGTGGAGTGGCGACATTTTCTTCTCGAGGCAGCTTTTGGGGATCTGTATTACTTTCA  
TGTGGACCACTTGCTAGTTTTGATTTCAATGATAATTTCTTCCTTCCTTTTTTTTTTTT  
CAAGCCTGTCTTCATAGTGATGACAACACATTTAACATTTGTTTTGATTTTACCCTCTCC  
TCTCTCCCACTCTCAGTCTGCANCCAGGAGAGCAGGNACGTCCTGTGCNAACTGTCANA  
CCACCACAACCACACTCTGGAGGAGGAATGCCAA

Sequence 3518

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTACGTAATACAGTTCCTATGT  
TTTCAAAAATTAATAACAATTTAAACGCATCCATTGTTATACTGTTCCCTACTATAAT  
TCCTGAACCTCCATGTAAACCCATTTTATATCTATCAATTTTGTGGTGTCAATTTCA  
TGTTTTTAAATAGCATGACATGCCTTTTTATTTTGAAGTTTTTGGCATGATATATTGACC  
TATCTCTAATGGAAACTGAAGTTTATCTATGTTACATTATGCCACTGAAATAAACATAT  
CCCAGCTGTTGAACAAGTGACACTTCCTGTCTACCACCAGAAACAGCAGCCCCAGGATAC  
G

Sequence 3519

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTGCAGGTTGAATGCAGGGT  
TTTATTGAGTGGTGGAGGTGGTTCTCTGAAGGATGGATGCANAGCTGGAAGCGGGGATGG  
CACGGGAAGATAATCTTCCTGCTGGGTGGCCAAACCTNTCCGACCACCCTCGGCTGAACT  
CCTCTCGGCGTTCAAATGTTCCCTCTTCTCTCTTCTCTACTGNATCCGTTTCACCATTC  
TCTGCTTGTCTGGGATGGTGAANACAACGTTTGCTCATTGCTTGGCGATAGGTGATTG  
TCTCGCCGCTCAGCTATAGGCGATGGTCTCACCACCTCGGTGATAAGGCCGATTGTCCCAT  
CTAGGTCGCCAAAATGTGCCTTGAATTGGTNGGGGTCTTTCGTCTCACTTGACTTCAA  
NAAATTGAANCCCG

Sequence 3520

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGTCCTGCGTTTGTAGATG  
GAAGGAAGAACTTGTGTGCTTAGACCTGACGCTGGGAGGAGATGCTGCCACCTAGGTTAC  
TTGTAGGACCCTATACGGCAACCTCCTTTGCCAGGAACTATTTATAAACATCCTGCAGGA  
AAATGAGTCAAGGAAAGCTTTTTCTTTGAGCTATTTACAGCTTTTAGCAATTGAGTAAA  
GTATACTCCTGTGAACAAAATTTGGAACATATTTGTTTCTCTCTAACTGATTTCTCCAGA  
ATTTGGAAGTGTAGTCTATATGTCAGAATACACATTTCCACCTTGCCCAACAGTANA

Table 1

AAAACATAAGNAAGAGAAAAACATTAATAAATGACAAGGAANTTAATGGGAAAGCAATTG  
TGGATGGTGTGTTGGAGGTGGGAAGCCTTCAGAAAGGTAATTAATGCC

Sequence 3521

AGGTACTTAGAGTCCAATTTTCTACCTTGGCTTGTGCATGAGGTTGCCTGGTTGCCACG  
GTGCCTGCTTTTCTCCCTGTGTACCTCCACTGCCTCCTGAATAACAGTCTCAGGTTTGT  
CTATGGCCTCTGCAGGGAGCCGGGNATCCAGACAGGAGCAAGGCCAACTTTAAATNA  
AGGGTGGGGGACGGCCCTCTCCCCCNTCTTTGGGGCCCGGNAGTTCCCAAACTTCNC  
ACCGCAAGGGCAACCAGGAAGAATCCCCAAGNATGGGGNCCNCCCCCAAGTTTTNTGGT  
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GGAACCTTCAAGNAAGAACCACCAAAAAAGCAAAACAAATNNGGAAAAGGAAGNAAG  
AAATTTTTTTTAAATTTGGGGTTGGAATTCGGTTGCCAAAGGNAAATGGGGGTTGGTCC  
TTGGGTTAGGGCCAAGGGCCCCCGCGCGGTTACCACTTGGCCCCCGGGGGCCG

Sequence 3522

CCGGGCAGGTACGCGGGCAACTATTGCAATGAAAAATTTCAACAATTTTTTAAAGG  
ATTCTGAAGGAGGAACAAGAACTTTATCAAAAAGAAGGTTTAGGTGTTAATGAAGTGCAT  
TATGTGGATAATCAGGACTGTATAGATTTAATTTGAAGCCANAATTAAGTGGGGGGAAAT  
ACCTTGGGAATATTTTTTGGGGAATTGAAANGAAAAAAATCCGCCCTTTTCCCCCCC  
AAGCCCCAAANGTTGGNATTCAAAACCAACCTTTTAAACCAATTTCTTTGGCNAAGGT  
CTNCCAACCCCCAAAANAAAAGGCCCAACCCAAAAGGGGGNAATTNCCAATTTTTTTTT  
NCGGGAACCTTTNCAAACCTTNAATTTTTCCCCCCCCAAGGCAAAAAAAATTCCTTAA  
AAAGGGCCTTGGGGGGCCCAAGGTTTTTCCAATTTAAGNNGNNAANNTAATTTNCAA  
AGGNAAGNTAAACCCGNAACCCGGNAANAAGGGGGCCCTTTTCCNAATTTTAAAT  
TCCAAAGGGGGCCCAANTTTTTTTTTGGGGCCCGGGGGGGGGGGGGGCCCAANGGTTGG  
GGTTTGGCCCTTAATTTGGGAAAAAAACCNAAAANCCCCCCCCAAGGTTTTTTTNGG  
TTNGGGGGGAAG

Sequence 3523

ACTATAGGGGCGGGACATTGGAGCTCCACCCGCGGGTGGCGGCCCGCCCGGGCAGGTACC  
AAGAAAACCTCCATCCACAAGTCCTTGCTGAATAATCAATCGCTGAGCCTCATCTAGAA  
AATTTTGGTGGGTGGAAACCATGGCTGGGGACCCGGTGGGGAATAGCCATTGTTTGGTGG  
GCAAGAGCCTCTGTGNAAGAAGGGCCAGGTGGGGGGGGCCCTACCCGTTTGAAGGTTGC  
CCCCAGGGCCGTNAAAAACCATTCCTTTTTTTTTTCCCTTCCCCAAGGCCGGAGGTTT  
CCCTTTTCTTTCCAAACCCCCCGGCCAAAACCTTGAAAAAAGGGGGGCTTTTCCAAG  
GNTTGGGGGGGAATTTTTTTTTCTTAAATTTAAACCNCTTCTTTGGCCTTTTTTTTT  
TCCTTGGGGGCCCCCTTGGGAAGGGAAAAAGGNTTCCCCAANTTTTTGGGCCTTTAACC  
CCCAAAGGGGGGGGAAAAANTNTTCTTTCCCTTGGGNAATTTAATTTAACCCTTTTT  
TCCTTTCAAATTAAGGGGGGTTTGGGAAATTAATTTGGGCCCTTTCCCTTGGGTTGG  
GAAAAAACCTTGGGGCCAAAGGGCCCCCAACCTTTTTTNCCTTTAAACCCCTTTT  
TTGGGAAATTAATTTGGGGGGAAATTTGGGCCAAATTTAAATTTAAAAATTTTTTCC  
CTTTGGGGGTTNCCCCCTTTCCGGGGGGCCCCCGGCCCTTTCCCTTTAAGGAAAA  
ACCTTAAGGGGTTNGGGGGGAAATTTCCCCCCCCC

Sequence 3524

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGTCCGTAGCTGAGACTTCTGGAGAGAC  
CATTCAAGGCTTCTGGCTCTTGACAAAGATAGACCACTGGAACAATGAGAAGGAGAGAAT  
TCTACTGGTCACAGACAAGACTCTCTTGATCTGCAATACGACTTCATCATGCTGAGTTG  
TGTGCAGCTGCAGCGGATCCCTCTGGAGCCGCTGTCTATCGCATCTGCCTGGGCAAGTT  
CACCTTCCCTGGGATGTCCCTGGACAAGAGACAAGGAGAAGGCCTTAGGATCTACTGGGG  
GAGTCCGGAGGAGCAGTCTCTTCTGTCCCGCTGGAACCCATGGTCCACTGAAGTTCCTTA  
TGCTACTTTCACTGAGCATCCTATGAAATACACCAGTGAGAAATTCCTTGGAAATTTGCA  
AGGTTGTCTTGGGTTCATGTC

Table 1

## Sequence 3525

AGGTACGCGGGGAAGTTAATGGAAGCAATGTGATGGTGTGGAGGTGGAGCCTTCAGA  
AGGTAATTAATACCCCTTGTAAAGAGAGGCCAGAGAGCTTGCGCACCTTCTCCTGCCATG  
TGAGGAGCCAAGAAGCCGGCTGTCCTGCAACTCTGGCAAGGANGACCCCTTCNCTTANAA  
AANCTNAGCCCATTACCTTGGGGCCATTCCCTTCAATCTTTGGGCCTTTTTCNCCAAACC  
TTTTCCCAGGAAACCTTGGTTGGAAGGAAAAGGTTAATTAATTGGTTTTTTGGTTGGGG  
TTTTNTNANGGNTCCAAAANTGGGGTTNCCTTAAATTGGGGGTTCAAAANTTTTTTTT  
TTTTTTAAATTAAGGNCCCAAGGTTTCCCCCAAGTCCCCCAANAANGAAACCNAAAGT  
TNGGGCCCCCTTTTCAATTTTTTTTNAACCCNTTAAACCNAATTTAANCCCCCAAATTT  
TTTTAAATTAATTTNTAAATTTTTAAATTNAATTTANGGGGGCCTTNCCCCCTTTTT  
TTNCCAAGGNAAAAAACCCTTGTNTNTNCCANAANAATTTANNACGGGAA  
AGGGAAATTTAAAAAAGGNAAATTAACCCCTTGGGAAAAAACCACCCAATTTAAAC  
CCAACCCCTTTTTNCAAACCTTTAAGGNTTTTTTTTTTA

## Sequence 3526

ATACGACTACTATAGGGCGAATNGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTT  
TTTTTTTTTTTTTGCCCTGGAGAGAGAGAGATGTTTTATTTTTGCCAAAGCATGTGANAG  
TAAGTAGCAAAACATCATGACACTTCACCCCTCAAATATTTCCACGTATCACTTAANAA  
CAAGGGCATTCTGNTACATGACCACAATNCCAATCCNCNCCAAGATAGGATATTAA  
CATTGACACAATGCTCNGATGTATNGGTNTCTACTATGCAGTNCATAATCAAATAAGGGT  
TTTGGTAACTNNGGATC

## Sequence 3527

AGGTACAAAAGGTCTGTCTTCCATCAGACCCAGTGATGCTGCGACTCACACGCTTCAATT  
CAAGACCTGACCGCTAGTAGGGAGGTTTATTCAGATCGCTGGCAGCCTCGGCTGAGCAGA  
TGCACAGAGGGGATCACTGTGCAGGTGGGACCACCCCTACTTGGGNCCTTTTNCNAGCCA  
AGGGGTTTTNNTGGGGGATGGTTTTTACAAGNNGGTTCAAAAAATACCTTCTGTTTT  
TAAGCAGGCCAAAGGGNGCCTTACCACCAANACCAAGNAAANATTANCTTGGTCAATTGN  
GGAAGGGCTGGCCTTNGAAAAACNAGNAGNNGGGGAAAAGNNGTTCTTTGTGNTNCCCN  
TTGNCCACACNNGGGGCGGGGCTCCGGCCTTCTAAGGAAAAACNTTANGGTTGGGGG  
NAATCCCCCCCCCGGGGGGCTTGNNAAGGGGANAATTTTCCGGAATTNATTTCN  
AANAGGGCCTTTTAATTCGGGANNTAACCCCGTTTCNGGAANCCCTTNTTGGAAAG  
GGGGGGGGGNGGGGCCCCCCCCGNGGGTTAACCCCCCAAGGCCTTTTTTTTTTTGGGT  
TATCCCCCTTTTTTTAAAG

## Sequence 3528

CGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAACCTGAGAATCACAAGCGGTGTGG  
TGGTGTGTGAGTGTGGCCTGTCCATCCCATCTCATGTGAGTGTCCACACACAGATTTCA  
TGATACTTCTTCCACATGGATCTACTTTCTGAAGATCCTCCAGTGCTGACTTGGAGCC  
CATTGTGCATATTTCTTCCAGTTTTATGTTTCAAGTGGTGTACATTGGTAGCTTCAAATC  
AGCCATGGTGAGAATATCTATGGCATGAAAATTGGCAAACAGTACCTGCCCC

## Sequence 3529

AGGTACGCGGGGAACAGAAAGCAGCCCAACTTGCTACTGAAATTGCAGCATATAAAGTCA  
AAGTATGATGAAGTAAAGGAGTCTTCGAGAAGCTGCTGAACAATAAAGTGACACCGTCTT  
GGACAGGAANGAATTACANACAATANGAGGGCCAACCTGTANATTCAAAGGATCTTGAA  
AGGACCGGGGAAACCTTGCTTCAAGGAAGGACCCCTTGGGGTATTTAAGGAAAAGATGG  
GTTTGGCCCCGTTGCCATAAAAAAGGAAAAAGGAAACCTGGGGTCCCCAAAGGTTTCCA  
AAAACCACCTTAAATTGGGGATTAACCAATTGGACCCCTTTGGGAAACCGGTTGGA  
GGCCGGAAGGAAAATTCNTTGGAAAAAAACCTTCAAAAAAAGGAATTGGAAAATTGGC  
CANAAAAAAATTTTGGCCAAAGGTCCACCAAAATTNAATTGGCCTTAAGGCCTTCAA  
GGAAGGGGCCCCACCCAAAATTTAAAGGCCCCCCCAAGGCCTTANAAGGGGGAAGGNTT  
GGAAAACCTTTTGGCCCCAAAAAAGGGGGCCCCCCCCCCCCCAAGGGGAAAAAGGTTTG



Table 1

## Sequence 3530

TACGACTACTATAGGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTT  
TTTTTTTTTTTTTTTTGAGAGTACTTTCACATGCTATACCACATTTAATTAATTCTAAC  
AACAGCACTGGAAAATAAGTATAATTATGCTCTTTAGTTCTTCTANACAGAAAGCTTTC  
ATGGGGATGAAAGACTGTTCTTAGCTCANAGTAGGGAATCAAAGTAGGCGGGGCTTAGT  
TCAGAGTGGGCGGGGCTTANCTCAAAATTGGCCATCAATTTGTANAATTGAAGTGTGAAC  
TNTNAGGATGAAAAACAGGGCTGCCAGGGGTGTNTAACTGCACCAANTNNCCCTACTT  
TTANATTTGGGCCCNAACCCGGCCCAACTTTAAGTTTTTTCNAAAATGNTTTAANTAAAG  
GGNGCCTTTGANCCNCTGGANTTNCCTTTTGGCCCTTGTNTAAAATGGGTTTGGAAATT  
TTCCCTNNGNCCCCCNNGGGCCTTTTTTTTTTTT

## Sequence 3531

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGTAGATGG  
AAGGAAGAACTTGTGTCTTAGACCTGACGCTGGGAGGAGATGCTGCCACCTAGGTACT  
TGTAGGACCTTATACGGCAACCTCCTTTGCCAGGAACATTTATAAACATCCTGCAGGAA  
AATGTGAAGTANAANAGACAGGGGATNTTCCCAGANGGTTATTGCAAAACATCAAGANGA  
AGATGAGAGGAGTCTATATGTCACGAATACACATTTCCACCTTGCCCAACAGCANAAAA  
AAAAAANAAAAAAGTACCTGCCCGGGCGGCCGNTCTAGAACTAGT

## Sequence 3532

CCGGGCAGGTACATAGCCCCAGAAGGGCGGACTGGCCGGAGTCCAGGGATGGCAGCCAAC  
GCCCCATAACAGAGATCAGCATTGGACTACAAGAAGAGGCAAGGAGAAATCAAGGATCAA  
AATTTAAGTAAAAAGAAAGCCAAGTCATTAATAATAGACCCCNNTNATTTGAANAAGTNGG  
GAACCGTAGGTGTTGATGTTCTGGCATAAGGAGTGAAAAAGAAAAGCTCTATTACTTGA  
AGCTTTTACCAGGGGCAGAGGGGAATGGCCGGAAGTGAGAAACGTGTGTGTGGATGCTTA  
CACCATGCCGTTCTCCTAATATTGGAACATGGCTCCAGAAAGGAGAACCAATTATTNCT  
AATTCACGGGGCGGCATTCTCTTGACTCCCAAACCTCCAAAGTGAGGGGCGAG

## Sequence 3533

CCGGGCAGGTACAGAAGGGCGGTCTGCTGACTTGGCTGGGCTAGAGGATGAGGATGTCA  
TCATTGAAGTGAATGGGGTGAATGTGCTAGATGAACCCTATGAGAAGGTTGGTGGATAGA  
ATCCAGAGCAGTGGAAGAATGTCACACCTTCTAGTCTTGGTGGGAAAAGGAAAGGCCCC  
TTTTGANTTTATTTTTTCCCCAANGGCCCTTANAGAAAAAATTCCTCCTAATTTTGTT  
TTNTCCCTCCCCCTTGGGTCTTNGGATTCCACAACCTTTTGGTAACTATCCCTCCCT  
TNCNCCANTGAATTCTTCTTAAAAAGNAAAAGGGGAATNTTANGGTTTGGGGATTGG  
GGTAAGCTTTCCANTANACCACCAATTGCNAANCTTTNCGGCCAAACNAAGTTGGGNNTC  
NAANAAAAAGGAAAAANCCGNGGNGNCCACNTCTATNCCAAGGTNTNACCCCNNTCCN  
GNGCCNCCGNCNTTTCCTTAAAGTAAAAACCTTAANGGTTTGGNNGNAATTNCCCCC  
CCCC

## Sequence 3534

CGAGGACGCGGCAATAGAAGCCGGCGTAAAGAGTGTTTTAGATCACTCCCTCCCCTTCTA  
CTCAACCTGGTGACTCATCTCTCCGATTGCAAAGAGCAAGACACGCCACTCCGCTTCAAC  
GCCAAAGCGGGGATCTGCTGGGGCACAGTATGCAATTTAAGGAAAACCCCAAAGGCTAC  
AGGCGACCTGCTGATCAGGAAAGAATTCGCTCTTGTCAAGTACCTGCCCG

## Sequence 3535

AGGTACTCAATGGACCAATCTGAATTAAGCTTTTCTGTTTTTCATAGAAGTGTTCTTTT  
CTCTAACTGCTGTAATTTTCTTGACTTATTAGGCTGGAGGACGTGTGCCAGTGTTAGA  
CACACTCATAGAACTTGTTACACGAGGCCGATCTATCCCCGTACCTGCCCG

## Sequence 3536

NNATTGGAGCTCCCCGCGGTGGCGGCCGAGGACGCGGCAATAGAAGCCGGCGTAAAGAGT  
GTTTTAGATCACTCCCTCCCCTTCTACTCAACCTGGTGACTCATCTCTCCGATTGCAAAG  
AGCAAGACACGCCACTCCGCTTCAACGCCAAAGCGGGGATCTGCTGGGGCACAGTATGCA

Table 1

ATTTAAGGAAAACCCCAAGGCTACAGGCGACCTGCTGATCAGGAAAGAATTCGCTCT  
TGTCAGTACCTGCCCCG

Sequence 3537

GACTIONATAGGGCGAGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGG  
GGCTGCCTGGGGTGACCCATAAGGAACACCCCCCTTCTCAACAACCACAGAAGATAAA  
TGCCAAGGGGACCACCAACATGGGCATGGGGCTGTGATGCCAATCTTAAGGAAAACACA  
AGTAAATTTGGCTCCAGGACTGAGCTGGGGGCAGCTGCTCTTTCTGTCCATGACTTTGAG  
GCGGGATCTCGAGCGTCTGTCTGACGGGCTTCTGTCTGCTGTCTCTCGCAGGTTTCAN  
ACATTGAATCCAGGATTGCAGCCCTGAGGGCCGACGGTGAAGCCCTCGGGAA  
AGCCCCGGAGGAAGTCAAACCTCCCGATATTTCTCCCTCGAGTGGCTGGGAACTTGGA  
AGAGACCANAGGACCCAAATGCANACCCTTCAAGTGAGGCCAAGGCAATGGCTGTACCCCT  
ATCTTCTGAGANAAGTTTCAAGTAATCCCTGAAAAGTCAAGGTAAAGATGATGATTCTT  
TTGATCGGAAATCAGTGACCTT

Sequence 3538

AATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGTATATTTGTAAACAAAAATGACTG  
GCTTTTCAACCACCCCTAGTCAAATCCACCACAGACTTTCTGGTAGATTAAAGAAACC  
CAGTCTTAAACTGCTGTTTGCATATGTCTTCTGATGTTGATTATTTAAAAAAAACAAAA  
AACGGCCATTTTCGGAATTTTCAATTGACAGTTTTTCAATTTAGTACGCGGGGACTGGGA  
GAGCGGGCTGAATGCAATGGAGTGTGCATTACATTTGAAAAAAATGTGAATCAGTCACT  
ACTGGAAGTGCACAACTGGCCACTGACAAAAATGACCCCATTTGTGTGACTTCATTGA  
GACACATTACCTGAATGAGCAGGTGAAAGCCATCAAAGAATTGGGTGACCACGTGACCAA  
CTTGCGCAAGATGGGAGCGCCCGAATCTGGCTTGGCGGAATATCTTTGACAAGCACAC  
CCTGGGAGACAGTGATAATGAAAGCTAAGCCTCGGGCTAATTTCCCATAGCCCGTGGGGN  
GACTTCCCTGGTCACCAAGGCAGTGCATGCATGTTGGGGTTTCTTTACCTTTTCTATAA  
GNTGGCCTGCCCNGGCCGGCCGTCTAAACTAAGNGGATCCCCGGGCTGGAGGAATTCAA  
TATCAGCNTATNGATCCGCCAACTTGANGGGGGGNC

Sequence 3539

ANGTACATCCAAGATTAGGTCATAAAAAAGTCTGTGGCAGCTACTCGGGAGGCTGAGGCAG  
GAGAATTGCTTGACCCAGGAGGTGGAGGTTGCAGTGAGCTGAGACCACGCCACTGCCT  
CAAGCCTGGGCTATAAGAGCAAAATCTGTCTCAAAAAAGTCCGTGGCTTCAATCTTGG  
GGGCTCTGCCTCTCTGGCTTTTGTCTCAGTTACTCTGAAAAAAGCCAGGTGTCACACTGT  
AAGCTGCTCTACAGAGGGCCCATGTCACAAAGAACTTATGTCTTCTGCCAAGAGCCACA  
TGAATGAGCCTGGAACTGAGTCACACTCTGCACATTCATGTACCTGCCCCG

Sequence 3540

CGAGGTACGCGGGGGACCTTGATGTGGGAGGATTGCATTAGTCTAGTTTCTGGTTGCC  
GGCTGAAATAACCTGAATTCAAGCCATGAAGAAGCAGCAATCTGTCTTCTGGATTAAAC  
TGAAGATCAACCTACTTTCAACTTACTAAGAAAGGTATTAAGCGCCTTTCTGAGAGCTCT  
CAGTGGGCTTCTAAGCACGTTCACTCTGCCTCCTTTAAGTCTTATATTTATGATCAAGA  
TGAAAGGGAGGGATGTATCACTGCACAGAGATTCTACAAGTGGATATATAAGCTAATAA  
TGTTTTCAGTGAGCTCTTCTCTGGCACTACTTTCCAAGTGCTTTCAGCATTCCACCTTG  
AAGCACAACGTTAATAATGCACAATTTCTTATGTTTCAGCCACAGAATGTTTACCCTGTGA  
TTTGGTTACAACATATTGCTCTATCCAGGCCTCTAACAAAACTGACTTCTTTCAAATGGA  
CTTGCAAGTTGCTGAATTCAAATCAACACTTTATCTTAAAAACAGAAAAGGAAGGGAAGG  
GTGGAAGGAGGGGAACAGAAANGGTCTGCCCCGGCCGGCCG

Sequence 3541

TGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCGTAGGGTTTTTAATACCAGGTTCA  
CCACAAACACGAGTAATGTGTTGTCTGTGGAGTTATGACAGGTGGTAGAAAGTTCCCCGC  
TCTATTATAATATTATGGGACCAGCATTGTATACACAGTCCATCCTTAACCAAAACATCA  
TTATGCTGCCATGACAACATTTGTTGGTTTTCTTGTGTTGTTGTTTAAAGACCAG

Table 1

GTCTGGCCCTGTCGCCCANGTTGGAGTGCAGGAAGAACTAGGAGAGTATGGTGTACC  
GAAGCCCAGGGAAAAGCGTCCCCGAAAGGGAGCGGTCCACANGACACATGAAGTTAGAGT  
ATCCGGAGGATTGAGCAACATGGAGATTGCTGCTCATCGCAACTACAGCANTTTCAATTG  
AGTTAAGGACCTGAACGCCAGACTACAGCGGAGGTGACAAGAAGTAAGAAAGTGAAGACT  
AAAAATGTAAATAATTTCAAGTGTAAATTGTGAAAGGAGAGATGATTCAAAGATAAGTTNA  
GGAAGAAGTGGAGCAAAGGCATTACTTCTTT

Sequence 3542

CTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGGCTTTTCTCTGAAAGCAAACGTGTGTC  
TTTTACACCAGGGCTTTCTCCCCACCCAGGGGGTGTCTTCCATCCTTTTGTGGCTCAGT  
TGAAGGCGAAAAGGGCTCAAACCACTAATAACCAGAGGAGAGCCCTTCTTCCACCTC  
CAGGGAGAATTTAGATTTAATTTGTCCGAAGATAGCGTGTCTCTTCTTACTCATTTGC  
CATCATTACGAGGAAAACAAACCACACCTTGGCTTCAAGATCCTGGGTAGAGGCTCACG  
GTCTTTTCAACCATCTTTGGCGAGGCCTTGCTTCTTCCACTCGAGCCTGTTGACTGGGG  
CTGCTTTTAACCTTTCTATTTGCTGAGATGCAGCCGTGTGACAGTAACTGAACATTG  
GTCTAAAGTCTTTCCAAAAGGTCAAGGTTCAACAAGAACATCTGCTCAAATTAATGACCAT  
GGGGGATATGAAGACCCAGACTTTGATGACCTCCTGGCAG

Sequence 3543

NNATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAAGAATTAGGCACAGAAAAGTGT  
TTTAATTAGGGTAACAGAAAGCAGCTGCAATACAGAGTGATGAATGTGAGCTTTGAAAGT  
AAATTTGGTGGGTTTCAGGATTTCTGAGGAGGGAAGTCAAACAGTTCTAAAGAGTTGGCA  
AGGCCAATTGAGAGGGTGGTAAGCTATCCTAAGCCCTTTCTTCTACATTAAGTCTGCTTT  
CCAGTTAGTCTTCAGGTGCTTTAANAATTTGAGATCCTTTTTTCTCATTGTGTGGTCCAT  
GGACTAGAAGTATTAGCACTACCTGGAACTTGTTCAAAATGCANAATTCTGGGCCCCAA  
AACAGACCTACTAAATAAAAGTCTCCATTTTAAAGAGATTGCTAAATGATTACATACTTG  
TTAAAGTTTGAGAGGCATTACCTTAGATTCTGTCTTCTTNTTACCTTTCAAACCCAGCTG  
AAAGTGGGTTTGATTTCCCTTTACTTTGACCTTTANGGAAGTACCTGCCCC

Sequence 3544

AATTGGAGCTCCCCGCGGTGGCGGCCGAGGATGAGACTGCCATGGAAGACTTGAAA  
GGTCACGTAGCTGAGACTTCTGGAGAGACCATTCAAGGCTTCTGGCTCTTGACAAAGATA  
GACCACTGGAACAATGAGAAGGAGAGAATTCTACTGGTCACAGACAAGACTCTCTTGATC  
TGCAAATACGACTTCATCATGCTGAGTTGTGTGCAGCTGCAGCGGATTCTCTGAGCGCT  
GTCTATCGCATCTGCCTGGGCAAGTTCACCTTCCCTGGGATGTCCTTGACAAGAGACAA  
GGAGAAGGCCTTAGGATCTACTGGGGGAGTCCGGAGGAGCAGTCTTCTGTCCCGCTGG  
AACCCATGGTCCACTGAAGTTCCTTATGCTACTTTCACTGAGCATCCTATGAAATACACC  
AGTGAGAAATTCCTTGAAATTTGCAAGTTGTCTGGGTTGATGTCTAAACTTGTTCAGCT  
ATCCAGAATGCCCAAGAATTCAACTG

Sequence 3545

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTACTCACCTTCTCTGACAGAAAAG  
GATGAAGTCAAGGGCTGGTAGAGGCACCACTAAGAAAGGCATCTGAAAGGACCAAAGAG  
AGTGACCAGCAAGCATTTTTGCAAGGCTGAGGAGCTGACAGCTTCCATGAAAGGCTGGA  
CCACCCAGTGGTGAAAAGCATCATCTGGGTTACCTTGTGCTGCCATAAAACACACCACAG  
ACTTGGTGACTTAAACCACAGATATTTATCTTCTCACAATCCTGGAGGCTGGAAGTCTGC  
AATCAGGTGCCAGCATGGTCAGGTTCTGGTGAGGGCCTTTTCTTCTCACTGTGTGCT  
CTTCTTGTGTCATGGAGAGGGAGAGCATGAACAAGCCCTCTACTGTCCCTCTTGAAGGG  
CACTAATCCCATATAAGACATCCACCCTCCTGACCTCGGCTAACCTAGTTAAGTACCT  
GCCCCGGCGGCCG

Sequence 3546

GGAGCTCCCCGCGGTGGCGGCCGAGGTACCGGGCAGCTTGACCTCCATTGCTTTTGGCTT  
TTGTCTCTTCTCCTTTTGAAGCTCAAAGGGCATAGAGTGGACTCTGATCCTAGGATTT

Table 1

TTTTTCCCTGCTTTGGCTGCCTCTGTTTTGGTTCATGTGTCAAGCAGAGACGGGGAAAG  
CCAAACGACACAATGAGCGTTCTCAGAAAGGAACTTCTTCGGAATGAAAAGCTTTGGCC  
ACATTGAAAGGGTAGAAGTCTGAGAGAACTTTTTATCAGGGAGACTAGGTCGGTGTC  
TTAGTCCTTTCAGGCTGCTGTAACAAAGTACCTGC

Sequence 3547

CGCGGTGGCGGCCCGCCGGGCAGGTACTTTACTCACCTTCCTCTGGCAGAAAAGGATGA  
AGTCAAGGGCCTGGTANAGGCACCACTAAGAAAGGCATCTGAAAGGACCAAAGAGAGTGA  
CCAGCAAGCATTTTTTGCAAGGCTGAGGAGCTGACAGCTTCCATGAAAGGCTGGACCACC  
CAGTGGTGAAAAGCATCATCTGGGTTACCTTGCTGCCATAAAACACACCACAGACTTG  
GTGACTTAAACCACAGATATTTATCTCTCACAATCCTGGAGGCTGGAAGCTGCAATCA  
CGGTGCCAGCATGGTCAGGTTCTGGTGAGGGCCTCTTTCCTTCTCACTGTGTGCTCCTTC  
TTGTGCATGGAGAGAGAGAGCGTGAACAAGCCCTCTACTGTCCCTCTTAGAAGGGCACTA  
ATCCCATATAAGGCATCCACCCTCCTGACCTNGCTACCCTAGTTAAAGTCCTC

Sequence 3548

TAGGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGCAGGTACGCGGGGAGAACT  
TGTGTGCTTAGACCCGACGCTGGGAGGAGATGCTGCCACCTAGGTTACTTGTAGGACCTT  
ATACGGCAACCTCCTTTGCCAGGAACTATTTATAAACATCCTGCAGGAAAATGAGTCTAT  
ATGTCAGAATACACATTTCCACCTTGCCCAACAGTAGAAAAACATAAGAAGAGAAAAAC  
ATTAATAATGACAAGGAAGTTAATGGAAGTCAGCAATGTGATGGTGTGGAGGTGGAG  
CCTTCAGAAGGTAATTAATGCCCTTGAAGAAGAGGCCAGAAGAGCTTGCCACCTTCTTC  
CTGCCATGTGAGGAGCCCAAAAGCCNGCTGTCTGCAACCTGCAAGAAGACCCTCACTAGA  
AGCTAGCCTTCTGGCATCCTCATCTTGGCTTTTCAACTTTCAAACTGTGAAAAGTATAT  
GTTTGTGGGTAAATCNAATGGNCTATGGTAATTTTTTTATTACAGTCCCAGNCCANACA  
GNGCCTCANTTACTACTTCCATTTATTTATTATATAGGCTCCTTCAAAAACCATGTTT  
AAATTANGAAGATTAGATCCTGGAACCCATACCNCCTTCCTAGTTTTAATNTACAAATTT  
GAAAAATAGTTGGTATTNACTATCTTATCCANAAAGCCAAATCTGTGGTTCTAATTTTAT  
TTATANTGCCAAATGAAAACTTACCCCTTCCTNATTTTACTTGCCCCAAAAAAAAAAAA

Sequence 3549

CCGGGCAGGTACGCGGGGAGGAGATGCTGCCACCTAGGTTACTTGTAGGGACCCTATACG  
GCAACCTCCTTTGCCAGGAACTATTTATAAACATCCTGCAGGAAAATGAGTCTATATGTC  
AGAATACACATTTCCACCTTGCCCAACAGTAGAAAAACATAAGAAGAGAAAAACATTAA  
AAAATGACAAGGAAGTTAATGGAAGTCAGCAATGTGATGGTGTGGAGGTGGAGCCTTC  
AGAAGGTAATTAATGCCCTTGAAGAAGAGGCCAGAGAGCTTGCGCACCTTCTCCTGCC  
ATGTGAGGAGCCAAGAAGCCGGCTGTCTGCAACCTGCAAGAGGACCCTCACTAGAAGCTA  
ECCATACTGGCATCCTCATCTTGGCTTTTCAACTTCCAGAACTGTGAGAAGTATATGTTT  
G3GGTTTAATCAATGGTCTATGGTAATTTTTTATAGCAGTCCCACCAANACAGTGCCTT  
ATTTACTCATACCATTTATATTATATATAGGCTNCTTTCAGAAACCCATGTTCAATNA  
GAAATAGATNCTGAACCATTACANCTTCTTGTTTTTAATTTCAAATTTGGGAAATAGTT  
GGTNTTACTTTCTCTTCCAAAAATGCCGAATCATGGTGCTTCTAATTTTTATATATNATT  
GGCCAAATGAANAACTTAACACCATTCTTAAATTTTACTTGNCCCNNGAATGGAAGAA  
TGAAAAAAA

Sequence 3550

CGGGCAGGTACGCGGGCTTTGACCAAAGAGTGCTCTGACACACTGCATTCCCTTTCCCT  
AGGGGTAGCCCATGTTGAGGGCAAGACCTCCAGAAATCCTGCAGCACCTCCGGGTCTTGA  
CAGTTCCCCTGTAGTTGCCACGGTCTCAGTGGGTTCTACCGGTTGTTTGCAGGAAATCA  
ACTCAGTGGAGACATTAAGGGCTGAGATTCTCTGGGCAGAAATGGCANACACAGNCNAT  
AAAGTCCCCACCTCCTCAGCTTGGGTTTGACGTGAGGGTGAATGAAACTTTGCCAACTGG  
CCTCCTGATGCTCTGCTCCCAAGGACTCCTCAAATGGCCACCAGCAGCAGTTCTGGGCT  
TGGGGGTGCAGAGGAGCTCACCACCATTTTGGCAGTCAGCAATCTGGGGCAGGTGGAAG

Table 1

GGAGCAAAGAAACACCCAACTACTCTTTTCATGGGATTACAAAGTTCCTCAAGGGGCAT  
TAACTTTCAAACCTCTTGCTGCCTTCTTTTTTTCGCCCCAGATTCAATCCATGGGTCT  
NTGACANGTTCGGAACTCTTNCCTTAGTATTCTACTTTTGGNCATGATCATTTACCTGT  
AACTTTNGGTTTTATTTCTTAAAAAANCAGTANCTNATTGGCTGGAGTCNANCATTT  
TTGGAAGCCAAAAAACCNNCCCNNTTTTAAANANGNGNACCCC  
CGGGGGGGGGAATTTNNNTAANNTTTNANCCCCCCCCC

Sequence 3551

CGACTACTATAGGGCNAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACGCAC  
AAGCAGGGCCCAGCTTGGGAGACGCTAGGATAACTAAGACCTGGTCAGCGCCCTGAGGAG  
TCTTGCTCTGGATAAAGGGAGACACACTAGCTTGGACTTATGCGTGACGCGGAGCTGTG  
TAGAGCAGGAGTGCGTGGAGAGGGCAGCAATGAACCTTTGGCTGGAGAGCCAGAGAAAGCT  
TCGTGAGCTGGAACACGGGGTAAAGTAGGAGCTTCCAGGGCGGAGGGGACTTCTGAAGT  
GGAGGAACTGCCTGTTCAAGACATGGAGGTAGGGATCAAAGTCTGAGTCATGTTGGGT  
GGGCACAGAGCAGANGATGGCTGGGGCGGTCTCAGGGATAAGGAAGAAGTTTGGG

Sequence 3552

AATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACCACAACACTCACCAGGACTGGAGTGC  
CACCTATGACCTCATTGCGTAATGGGATGGCTTGCCTCAAATGGGCCCGGTCTTGGACG  
AGCCTGAGGATGTCTACAAGTGGAAGAAAAGAACCCTGGAGCAGAAGGTGGGGAGGATA  
AAATTTGGAGCAAGATTCTCAAGGAAGCAACAAGATCCTAAGGAAAGGAGAAAGAGACCA  
CCTACTGCATTTCTGTCACTCGCTGAAAAGGACACTCTGTCAGAAAATCTCTAGCAAAC  
TTCAAAGGGCAAATCACCCCTTGTACTGATAAGGCCAGAGAGCTTCAGCAGCTAACA  
TTCCCTGGACAGGGCACAGCAAGGATTTGAACCTAGGTCAATCTGGCCAGAACACCCACA  
AGCTTTNCTTAACCTAGTGTGCTATCTCCACGACTANGGTGCTACTGCTTTATAATCA  
CCTTTGTAGCCACCAATGGATTTTGTTCATCANTATTTTCAGGC

Sequence 3553

CCGGGCAGGTACGCGGGGGAGGAAGTGCAGACTGACATGGGAGAGCATGGCAGGCAAAC  
TAGCCTGTAAGGGTGGAGGTGCTGGAGAGACACTTCCTGCAGGAAGTGGCCTGTAGGCTG  
ATACTTGAAGAATGGTTAGGAGTTAGGCAATTGGGGTGGGAGGGAGGAAATGAAGCTGAG  
ACAAAGAATAGCAAGGGCCAAACCTAGAAACAAGAGACTGTAANCTATAGCAAAGGAAG  
TGGGGTAATGCATGTTTTAGGTCTGTGTGGGGTGTGTGTAATACACATGCGGGGTGTG  
GAGCGTGATGAGAGACAAAGCTGAGAAGTGTGGTGGAAAAGGAANAGAGAGCTGAGGCAG  
ACGATGTAAGATCTGCTGTTACTTCTTGCTGTGTGA

Sequence 3554

AATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGTGCTCCTCTGAGAACCATCTG  
TTGGTCTGATGGTGTAGATCTGAAGCTGGTGAGCCTCTTGGGGCGGCCTCAAGGGCTAA  
CAAGATCTCAAATGCCCTTCTCTCCATCATTTGTGGTATCCTGGATTATTGTGAAATGT  
ATAGGGATTCTGGGGAAGAGTTAAGGATTAATAAAGGTTTAAATATAAATAACTT  
TATATATATATGTTTTTCTTGTAACCAATATGTTATATAGTAGGAAGTTTAATTCCTT  
AACTTTGGTNTTTCTCCCTAGCCTTTTATAGCCAACAAGAGCAAAAGCACACTGCAATG  
TCCAAACGAATTGCAGGCGNNTTCTGCTCCCTGAAGCCTGGGAATTAATTTATATACTCA  
GTCCCTTTTCCCTTGGCTGEC

Sequence 3555

AGGTACTTTACTCACCTTCTCTGACAGAAAAGGATGAAGTCAAGGGCCTGGTAGAGGC  
ACCACTAAGAAAGGCATCTGAAAGGACCAAGAGAGTGACCAGCAAACATTTTTTGAAG  
GCTGAGGAGCTGACAGCTTCCATGAAAGGCTGGACCAACCCAGTGGTGAAAAGCATCATCT  
GGGTACCTTGTGCTGCCATAAAACACACCACAGACTTGGTGACTTAAACCACAGATATT  
TATCTTCTCACATCCTGGAGGCTGGAAGTCTGCAATCACGGTGCCAGCATGGTCAGGTT  
CTGGTGAGGGCCTCTTCTCTCACTGTGTGCTCTTCTTGTGCATGGAGAGAGAGAGC  
ATGAACAAGCCCTCTACTGTCCCTCTTAGAAGGGCACTAATCCCATAATAAGGCATCCAC

[illegible]

Table 1

ATTAAGCGCCTTTCTGAGAGCTCTCAGTGGGCTTCCTAAGCACGTTCACTCTGCCTCCTT  
 TAAGTCTTATATTTATGATCAAGATGAAAGGGAGGGATGTATCACTGCACAGAGATTCTA  
 CAAGTGGATATATAAGCTAATAATGTTTTAGTGAGCTCTTCTCTGGCACTACTTTCC  
 AAGTGCCTTCAGCATTCCACCTTGAAGCACAAACGTTAATAATGCACAATTTCTTATGTTT  
 AGCCACAGAATGTTACGTGTGATTTGGTTACAACATATTGCTCTATCCAGGCCTCTAAC  
 AAAACTGACTTCTTTCAAATGGACTTGCAGTTGCTGAATTCAAATCAACACTTTATCT  
 TAAAAACAANAAAAAGAAG

Sequence 3562

AATTGTTTCTCACC GCGGCGGGCGGCGGCGGAGGTA CTTTGTACAN CAGCCTGAAAGGACTAA  
 GACACCGACCTANTNTCCCTGATGAAAAAGTTTCTCTCAGACTTCTACCCTTTCCAATGT  
 GGCCAAAGCTTTTCATTCCGAAGAAGTTTCTTTCTGAGAACACTCATTGTGTCGTTTGG  
 CTTTCCCGTCTCTGCTTGACACATGAACCAAAACAGAGGCAGCCAAAGCAGGGAAAAAA  
 AATCCTAGGATCAGAGTCCACTCTATGCCCTTTT GAGCTTCAAAGGAGAAAGAGACAAA  
 AGCCAAAAGCAATGGAGGTCAAGCTGCCCGGTACCTGCCCG

Sequence 3563

CCGCGGTGGCGGCCCCGCGGCGGCGGAGGTA CTTTTTTTTTTTTTTTTTTTTTTTNGCNGC  
 TTAACAACAGCCATTTTATTTAATATCTCATGATTTTGTGGTCAGGAATGTGGACAGA  
 GCTCAGCTGGGAGATTGTTCCACTCCATGTAGCATCANAAGACAGGTCTCTTGGTGATAT  
 TCAGCTGGAGAATAAGTTAATATGCANAGTTCAAGATGGTTTCACTCACATTGACACCTT  
 GGCAGGGATGGCTGGAGGGCTGGGCTCANCCAGATCAGTTAACTGGCGTGCCTGCATATG  
 CACTNTCCACCATGGGGGTCTCTANAATTGACTCAAATCTANAATTGGCTGGAAGACATA  
 GTGGGAGAAAATAAAGTTAGCAGCCACATTTAGTCTACCACATGGAGTAAGANAGAAAAGAA  
 AGGAGTCAAAGGGGCCTAGTTT

Sequence 3564

CGCCCGGGCAGGTACGCGGGGGTAGATGGAAGGAAGAACTTGTGTGCTTAGACCTGACGC  
 GGGGGAGGAGATGCTGCCACCTAGGTTACTTGTAGGACCCTATACGGCAACCTCCTTTGC  
 CAGGAATATTTATAAACATCCTGCAGGAAAATGAGTCTATATGTCAGAATACACATTTT  
 CCACCTTGCCCAACAGTNNAACATAAGAAGAGAAAAACATTAAAAATGACAAGGAA  
 GTTAATGGAAGTCAGCAATGTGATGGTGTGGAGGTGGAGCCTTCAGAAGGTAATTAAT  
 GCCCTTGTAGAAGAGGCCAGAGAGCTTGCACCTTCTTCTGCCATGTGAGGAGCCAA  
 GAAGCCGGCTGTCTGCAACCTGCAAGAGGACCCTCACTAGAAAGCTAGCCATACTGGCATC  
 CTCATCTTGGCTTTCCAACCTCCAGAACTGTGAGAAGTATATGTTTGTGGTTTAGTCAAT  
 GGTCTATGGTAATTTTTTATAGCAGTCCCAGCCAAGACAGTGCCTCATTTACTACATAC  
 CATTTATATTATTATTTAGGCTCCTTTCAAAA

Sequence 3565

CCGGGCAGGTA CTA CAGTTGAGATAGGATTA AACCCCAATTTCAAGCCCCCTTACAGAG  
 TTCCACTTACCAGGTTATTTAGCCGGCAACCAGGAAGTACTGAAATGCAATCCTCCCA  
 CATCCAAGGTCCCCCGGTACCT

Sequence 3566

CCGCGGTGGCGGCCCCGCGGCGGCGGAGGTA CCAAAATTTACCAAGAGAATTACAGCAAAAGTA  
 TTCTGACTCTTAATGTCTTTCTCACTGGTGGGAAGCCATTAGGATGGAAGCACCTGACC  
 ATGGAGAGCTGTGTTCTATTTGCCATAGGTGAGAATAAGCATCTCTGCATGGCCACACAT  
 GTATATAATTTGTATATACACTCCGTATAGACCAGAAATTTTATAGAAAATCAGCGGA  
 AAACCTAGTTAACAATTCACACTGTGATTCAGCTGACTTGGGATTCTGCATTTTTAAAAA  
 GTTCTCAGGTGATGCTGATGCTGGTGGTCTTGGACGTTGCTCTGGGTAGCAAGAGGAGA  
 GGCTTTTGTGGGAAAAATGTGGAAGCAGAGCAACTGGATAGAAAGGTGAGGACAGAAAA  
 GGTCAGGAGAAAAATCATGGGTCTCTTAATTTTGGAGGATGTTTTT

Sequence 3567

CCGGGCAGGTA CTTGTGACAGGCAGACGTGATTGCAGCCACGAACACGATGAACTCACTG

Table 1

AAGTCCACCTGGGCATCTCCATTGACGTCCAGGTCCTTGAGCAATTTATCCACGGCATCC  
TTGTCTTTTCACTCTCAGGGACACAGCTCCTGGGGAGGGCGGCAGAGACCCTGACAGTCT  
CGCCTCGCAGGCGTCTTTCTCCAGGCTAGAAACCAATGACTCATCTCTCAGGCTCTCTAG  
CAACAGCGGGGGCCACACACCACAGTTTGTGGTCGAATGTTCCCTGAGGGCTACGGAG  
TCTGGTCTTGCCGAATACCCCGCGTACCT

Sequence 3568

CGCGGTGGCGGGCCGCCGGGCAGGTACAGTGGCCCCCGTGAAAGACAGAATTGTGGTTT  
TCCTGGTGTACGCCCCCTCCAGTGTGCAATAAGGGCTGCTGTTTCGACGACACTCGTTC  
GTGGGGTCCCCCTGGTGTCTATCCTAATACCATCAGACGTCCCTCCAGAANGAGGAGAT  
GTGAAATTTTANACACTTCTTGCAGNGGTATCTTGCCTGCNATTCTTGACGCGNGTGC  
ACNTCCNCTAGCACGGGTGAATTTATGTTNCCCAAGAAGTCTCGGNCTTGCCAACNCTC  
CACTCGGGAAACAACNTCAAGAAACACCGCTTTCTTGGCAAGNCCTGTNGGCCCTTCNGG  
GCTTCCACCAAAACCACCAATAATTTGGAACNTGGCCTTCNTGGACCTTATTGAACTTANC  
TTCAAAAAAAT

Sequence 3569

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTAACTCAGCCAT  
TTTCTCTCTCTCTATGTGTGGTGACTTCAGGAAACCCAGGCCAGAGGATATAAAGCCA  
CAATGCTTCTTTCTCTTCAAACCACTCTTGGATATTCGGTTCCTCACTGCTTCACTGC  
GCTTCACTGGTCAGTGCCTCACTCAAAGTCTGAAAGAATTGTCTAACTCATACACAGG  
GACAAAGTCCAGCAAGCTTATTTAACCGGTTACACAATTGCCTTTGGTTTTACAGTTTG  
TTCCTAAGTGTTCAGAGGCTTGGTTCCTCTTACCTGAGGTAGAGATTGACCAATTAT  
TTATTCCAGTTAAAAGTAGGCTTATTTCAAAGGCAGAGAATTGAAAGCTATCGGGGAAA  
GGAAGTGTGGCAGATAGTGCCTGCTGTGTGT

Sequence 3570

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTT  
TTTTTTTTTTTTTTTTTACGGCTTGAATATCTTGAATTTAACTAGTAATTCAGCTC  
CTCTTCAGCACTACAATATAGTCTGTTGCCAATGCCTGATGAGACACATAGCTTATGAC  
CATTGCACCTCTCTTTTTTCCATGGTTTGCATTTAGGAGGTAATTTCTTCAGCTACTA  
GAGGATATCCTTCCCTCATCAATTTANAGAAATATTTGGTCAAATGATTTTAAATAAAAA  
ACGNTCTTACCTTCTAATTTCCATTTATTTATCTATTTCTTTTGTATGCGCAGCCTT  
GGGTAAACACACATNCTTNTGTGAAACAGTCTCACAGAGACTNTNANAATCCCAAGAACT  
TTNTTCATAAGNCCTTTTGTGTGGATT

Sequence 3571

CCGCGGTGGCGGCCGCCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTTTTTAAG  
TGACAGAAAACAGGTTATACGTAACGTTAAAAATAATAAATGGAAGACTATGCCTTCGG  
GGCTCATTTCTATAGTTTGTGTTAGAGAAGTTTCTCTGAACGTGTGGAGCACAGGGAAA  
AAATTTGGTCTATAGGTTGTTGGGTTATAGACCCTTCTTTTATATTCATATGTATTTATA  
TGAGAATAAACATGACCCAAATATTCTACACTTAATATTTGCAATCAGGAAAAATGAC  
TTGATAGAAGTATTTACCCTGCCAGGCGTGGTGGCTCACACCTGTAATCCAGCACTTTG  
GGAGGCCGAACCAGGAGGATCATCTGAGGACAGGAGTTCGAGGACAGCCTGGCCAACATC  
ATGAAACCCCATCTNTACCAAAAATACAAAAAATTAGCCAGGCATGGTGGTGCACACCTG  
TAATCCCAGCTACTTAGGAAGCTGAGGCANGAAAAATTGTTTGAACCCAGGANGCGGAGT  
GAGATCCATNATTGCACTCCACCTGGGCGATAAAGAACCAANGCTTTTCTTAAGAAAAAA  
TTAAATAAATTAATTCNNGTCAGGCCCNNGGGGTCACTTCTGTAATNCCACACTTTTGG  
AGGCCANGGGGGCCATTACGANGGCAANANATCGAAACATCCTGGCTAAAACGGGGAAA  
CCCTTTNTTCTTAAAAATCCAA

Sequence 3572

CCGCGGTGGCGGCCGGGGGATGCGAGGCTCGGAGCACCCCTTGCCCGGCTGTGATTGCTGC  
CAGGCACTGTTTCATCTCAGCTTTTCTGTCCCTTGTCTCCGGCAAGCGCTTCTGCTGAAA



Table 1

GTTTCATATCTGGAGCCTGATGTCTTAACGAATAAAGGTCCCATGCTCCACCCGCAAAAAA  
AAAAAAAAAAAAAAAAAGTACCTCGGCCGCGACCACGCTTCGAGCGGCCGCCCGGGCAGGT  
ACAATCAAAGTCCTTGGCCACATTGTAGAACTTTGGGGGAAGCTCGCTCCAACCGACTAC  
TATCACCTTCGCCGTTCCGGTTTTCAAATCCTGAGTCAAGCCAATAAAAAACAAAAAAA  
AAATGAAACAAGAAAAACAAATAAGCCCCGCAATCTCATGTTGTTTTCTGAGAAGTTTGG  
TTTTGTCAAGAAAGGGTGTAAACGCAACTAAGTCAGAGTCCACCTAGAAACATTTGCCGTG  
GACAATGGAGGGGCCTGACTCATCACTCCTGCTTGCTGATCCACATCTGCTGGAAGGT  
GGACAGGCGAGGCCAGGATGGAGCCCCGACCCACNGAGTACCTTN

Sequence 3573

CGCCCCGGGCAGGTACTGTGTTTGAAGGGATTACCAAAGGCTGGAGCAATTTAAGCTATG  
CACTAGCCTTGCCCTCTTAGGTTGCATTCTCTTAGGCCACTGGTCTCAAACATTAGGG  
TGCACTGTAACCATTACAGAGCTTGTGAAAAGTGCAGAAACCTGAGCCTCACCTTATGAG  
ATTCTGATTCAGCCAGGGGGAGGACAGGAATCTGTATTTTTCATAGCAACCTCAAGTAAT  
CTTTATTCTGAGGGTCTCGGGATTGCAGGTTGAAAAACACAACCTTAATCAGCAGTAAAT  
TCTTCTCTACTCGGCCAGGCGCAGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCC  
GAGGTGGGTGGATCACAAGGTCAGGAGTTGAGACCAGCCTGACCAACATGGTGAAACCC  
CATCTCTACTAAAAATACAAAAATTAGCCGGGCGTGGTGGTGCTCGCCTGTAATCCAGC  
TACCCAGGAGGCTGAGGCAAGAGAAATCACTTGAACCCGGG

Sequence 3574

CGCCCCGGGCAGGTACGCGGGGGCACCCGTCCTGCGTTCCTCCTGCCTGGGGTGACCCATA  
AGGAACACCCCCCCTTCTCAACAACCACAGAAGATAAATGCCAAGGGGACCACCAACAT  
GGGCATGGGGCTGTGATGCCAATCTTAAGGGAAAACACAAGTAAATTTGGCTCCAGGACT  
GAGCTGGGGGCGAGCTGCTCTTCTGTCCATGACTTTGAGGCGGGATCTCGAGCGTCTGTC  
TGACGGGCTTCTGTCTGCTGTCTCTCGCAGGTTTCAGACATTGAATCCAGGATTGCAG  
CCCTGAGGGCCGCGAGGGCTCACGGTGAACCCCTCGGGAAAGCCCCGGAGGAAAGTCAAAAC  
CTCCCGATATTTCTCCTCGAGTGGCTGGGAACTTGGAAGAGACCAGAGGACCCAAATG  
CANACCCCTTCAAAGTGAGGCCAANGCAATGGCTTGTGCCCTATCTTCTGAAGAAAAAAGT  
TCAATAATTCCCTGAAAAGTCAANGTAAAAGATGATGATTCTTTTGATCNGGAAATCAG  
TGTAACCTTGGGCCGCTCTAAAACTAAGTGGATCCC

Sequence 3575

CGCGGTGGCGGCCCGCCCGGGCAGGTACTTAACTAGGGTTAGCCCGAGGTCAGGAGGGTG  
GATGCCCTTATTATGGGATTAGTGCCCTTCTAAGAGGGACAGTAGAGGGCTTGTTTCATGCT  
CTCTCTCCATGCACAAGAAAGAGCACACAGTGAGAAAGGAAAGAGGCCCTCACCCAGAACCT  
GACCATGCTGGCACCGTGATTGCAGACTTCCAGCCTCCAGGATTGTGAGAAGATAAATAT  
CTGTGGTTTAAAGTCACCAAGTCTGTGGTGTGTTTTATGGCAGCACAAAGGTAACCCAGATG  
ATGCTTTTACCACCTGGGTGGTCCAGCCTTTCATGGAAGCTGTCAAGCTCCTCAGCCTTG  
CAAAAAATGCTTGCTGGTCACTCTCTTTGGTCCTTTCAGATGCCTTTCTTAGTGGTGCCT  
CTACCAGGCCCTGACTTCATCCTTTCTGTGAGAGGAAGGGTGAGTAAAGTACCT

Sequence 3576

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAACCTGAAGCAAAGAGGAAAG  
CAGACCCATGGCTCAGGACACATGGGAGTCCCACCAGCTTGAAAAAGTTTCACAGAGCT  
GGCATTTCATCAGTGCAGACACGGCTCTGAAAACAGTAATTGTGCCTTATGGGCATGAT  
ACGCCCATTTCTACTCTGACCTCCTCCAGGAGAACTCTTCTGCAATGACCACAGTAC  
CTGCCCG

Sequence 3577

TTTTTTTTTTTTTTTTTTTTTTTTTGCAAATTTACACAGTTTTCTTAGGAATGCTCTTTC  
TTTTTTTTTTNNNTNGGGACTCTACATTCTGTANCTCCTATTNTTCAAGGGCACAGGGC  
TTACTTAAACATAAAATTTTACAACCTTAACTGGAAGGGTGCCCTGCTTGCAATGGAAAA  
CTGCCACANAGCANACTTAACTGCAGCAAGCAGGTGACAGAGCAAGGAACAGGATCCAAA

Table 1

ATTATGATTTTTTGTGTGCTACTGAAGTAAAGAATTTAAGAAGGTTTTACTCAGGGTCA  
TAGGCTGGGTTGGAAGACTGGGAAAAGGAAATCAGTAGTATCTATATCTAATTATGGGGA

0

## Sequence 3578

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTAAGTAAATGTAACCCGA  
TACAGCACAAAGACATCCCCACCACTGTGGATACCAAAGATTTACCTCCAACGGCCATGCC  
AAAGCCACAGCATACATTTTCTGACTCACAGTCCCCTGCTGAGTCATCTCTGGGCCTTCT  
CTTTCACTGTCTGCACCCGCTCCTGGGGATGTTCCCAAAGACACATGTGTCAATCACCC  
ATAAGCAGTTTCCATGCACTGATCTAAAAGTGTGAGAAAACCATAAAGGATGTGTTTTG  
CCTGTGTCTCGTTAGAACAATGAGAAAATGCCACTTTTAGAACTTGGAGGAGAAACAACC  
CCTNCTTTGTCCACAGAGCCGTAGTCCAAAAGCTGTGGGAAGTGAGTGTCCATTGAGAGT  
CCTCGTCCAGGTCAGGTCCTTCGTGCTCCCCCGTGGAGAGCACCCAGGATGTGAGCTCCC  
AGGGTNATNCCAGGAGAGCTCTGAAGTTAAGAAGAAGTGCAAGTTGCCAATTGTACAG  
TAAATGAACCTGAAAGGNGGTTTTCCG

## Sequence 3579

CCGCGGTGGCGGCCCGCCCGGGCAGGTACCGGGCAGCTTGACCTCCATTGCTTTTGGCTT  
TTGCTCTTTTCTCCTTTTGAAGCTCAAAAGGGCATAGAGTGGAAGTCTGATCCTAGGATTT  
TTTTTTTCCCTGCTTTGGCTGCTCTGTTTGGTTTCATGTGTCAAGCAGAGACGGGGAAAGC  
CAAACGACACAATGAGCGTTCTCAGAAAGGAACTTCTTCGGAATGAAAAGCTTTGGCCA  
CATTGGAAAGGGTAGAAGTCTGAGAGAACTTTTTTCATCAGGGAGACTAGGTCGGTGTCT  
TAGTCCTTTCAGGCTGCTGTAACAAAGTACCT

## Sequence 3580

CCGCGCAGGTAATTTTTTTTTTTTTTTTTTTTTTGGTAACAGATCTAATCTTCCACGTA  
AGCCTCTTTACTGGAGAAGAGTAGATGGGAGGGCAGGTGGGATCTATTTAGACAAATCCG  
ATATATTCAGAATGATTCAGTAGGCAAGAATTCTCCTGGTAACGAATCTGTGTGTCAA  
GGTCCTTACCTTGGCTCTCACTGTCCTCAGGATTATGGAGGGGAAGATGATGCAGAATTC  
GCACATGTCTTCTGGATCATGGGGGACTTTGCTGAGTGTGCCTGCCATGGTCCCGATCTC  
TGATTGATAGGAGTGAAGTCTGAGATCCTGGATCTGACCACTGAGATATGTGGCCCAAGT  
GCCATTCACCCCTNGCAGGGTAACATTCTGGCTTCCATGGGGCAAAAGCCATTGG

## Sequence 3581

CCGCGGTGGCGGCCGAGGTACGTAACAAGAAGGGGAACACTCCATTGTGGCTAGCAGCAA  
ATGGTGGACACCTCGATGTGGTTTCACTTACTGGTGCAAGCAGGTGCAGATGTGGATGCAG  
CAGATAACCGCAAGATAACTCTTTATGGCAGCATTTAGAAAGGGTCATGTGAAGGTGGT  
GCGCTACTTAGTCAAAGAAGTCAATCAGTTTCCATCAGATTCTGAATGTATGAGATACAT  
AGCAACCATCACTGATAAGGAGATGCTGAAGAAGTGTGATCTTTGTATGGAGTCAATAGT  
ACCTGCCCCGGCGGCCGCTCGACCCGGGAGGTACCCACAGAATGTGGCCCCAATGATT  
CAATTACAGCTAGAAGTTGTTCTTCCCAAAGCACGAGTCTTTGCAATTCACAGGATAT  
TTTTCTTTTATATAAATCCTGCGAGAATGTAAGTGCGGATGAAAGATTGTGTTCTGTC  
TTCTTCTTGTCTTTTTTCTGTTTACTCTGATTTTATAAAATGCAGTGTGATGTTAGGA  
CAAATTATCCTCAGTTTGGCAGCAAGTGAGTTTATAAATTATTTTATTCAAATGAGAAAA  
TTTCCGCTTAGAACCAATAGNAAAGGATGGTGAGTTTCCAGCTGACCCACAATGACGTAT  
TTAACTCACAAGTGAACTCAGCTCTGCGGGTTTAATAAGTT

## Sequence 3582

ATTGGAGCTCCCCGCGGTGGGCGGCCGAGGTAATTTTTTTTTTTTTTTTTTTTTTNC  
TTTTTTAAAGATCATTTTTTAACTTTTCATTTTGAAGTAATTACAGGGTTTTAACAAGT  
TGCAAAAACAGTAGAAAAGTTTCTGTGGACTCTTCATCCAACGTCCCCAAAAGTTAGCTT  
TGAGGCTGGGCGCGGTGGCTCACGGGCACTCATACAGCACTTTGGGAGACCGAGGTGGG  
TGGATCAGCTGAGGTCGGGAGTTTGAGATCAGGCTGGTGCACATGGTGAAACCCGTTTT  
CACACTCATGGAGCCAGGAGGACCAATCCATGAGCACAGGGCANCTCGGAGTCCCGGGCG

Table 1

GGCATTNTCCGGCGTCCTTCTTCTGAAGCTTCTGAAAAGTTGCTGTAGGACTCCTTTTCC  
CAGGTTGGGGTTTCTATCTGCGTTTTAGCTGCTTGNGTTGCCATGTGGATCTCCCCGCGT  
ACCTTGGCCG

Sequence 3583

GAGGGAAAAGTAGGGCANAACTGGATACAGTTCTGAGGCACAGCCAGACTTGCTCAGGGT  
GGNCCTGCACAGGCTGCAGCTACCTAGGAACATTCTTGACAGACCCCGCATTGCCCTTTG  
GGGGTGGCCTGGGATCCCTGNGGTAGTCCAGCTCTTCTNCATTTCCANCCTGGCCCTGG  
TTGGAAGAAGCAGCTGTCACAGCTGCTGTANACAGCTGTGTTCTACAATTGGCCAGCA  
CCCTGGGGCACGGGAGAAGGGTGGGGACCGNTGCTGCCACTACTCAGGCTGACTGGGGCC  
TGNTCAGATTACGTATGCCCTTTGGTGGNTTAGAGATAATCCAAAATCAGGGTTAGGTTT  
GGGGAAAAGAAAATCCTCCCT

Sequence 3584

CCGCGGTGGCGGCCGGGCCCGGTAGTTGTCTTCTTCCAGTCATGTCTTTTGTAGGC  
TGCTGGTGACAATGATGACATCCTCTGCAATGCAAGACATCTCCTTGATGGTCAAGTAGC  
ACATCCGACGGAGTGTGGGATCATTGGACTGAAAGAGCTTGGTCATGGCAAAGAAGGCCT  
CGGTGCTTCCGTGGTCCCCAGGTGCTCCCCCTGGTTTATGAGATAAAGAATCTTGGTGA  
GGATGTGGGCACATTTCCGAGGGTTGATGGGAGTTTCATTAATACACGGGCCTCCTGGA  
GTACGCGGGGAGGCGAATTCTGGGGCTGCTGGATGCTTACTTGAAGACGAGGACTTTTCT  
GGTGGGCGAACGAGTGACATTGGCCGACATCACAGTTGTCTGCACCCTGTTGTGGCTCTA  
TAAGCAGGTTCTAGAGCCTTCTTCCGCCAGGCCTTCCCAATACCAACCGCTGGTTCCT  
CACCTGCATTAACCAGCCCCAGTTCGGGCTGTCTTGGGCGAAAGTGAAACTGTGTGAGA  
AGATGGCCCAATTTGATGCTAAAAAGTTTGCANAGACCCCAACCTAAA

Sequence 3585

CGGCCCGCCCGGGCAGGTACCAGTGCATTAATTTGGGCAAGGAAAGTGTCATAATTTGAT  
ACTGTATCTGTTTTCTTCAAAGTATAGAGCTTTTGGGGAAGGAAAGTATTGAAGTGGGG  
GTTGGTCTGCCTACTGGGCTGACATTAATACTACAATTATGGGAAATGCAAAAGTTGTTGG  
ATATGGTAGTGTGTGGTTCTTTTTGGAATTTTTTTCAGGTGATTTAATAATAATTTAA  
ACTACTATAGAAACCGCAGATAAGTTTTTCTCTTTGAAAGATAGAGATTAATACAAT  
ACTTAAAAAATATAGCAATAGGTTACTAAGATATTGCTTAGCGTTAAGTTTTTAACGTA  
ATTTAATAGCTTAAGATTTTAAGAGAAAATATGAAGACTTAGAAGAGTAGCATGAGGAA  
GGAAAAGATAAAAGGTTTCTAAACATGACGGAGGTTGAGATGAAGCTTCTTCATGGAGT  
AAAAATGTATTTAAAGAAAATTGAGAGAAAGGACTACAGAGCCCCGAATTAATCCAAT  
AGAAGGGCAATGCTTTTAGATTAATAATGAAGGTGACTTAACAGCTTAAAGT

Sequence 3586

AGCCTCCACCCGCGGTGGCCGGCCCGNCCGGGCAGGTACAAAAATCCCCAGAGCCACATA  
GACGGGGGTGGTAGTGCGAACCATAGCAATATTGGCATAGGTGCCAATCTGTAGCTCTTC  
CAGAGACTTGACATGAACTCTGGCTTGGGGAAGTCAAGTATAACAATTTGAGGAAGTT  
CAGAATGCGCTTGTGGGTGAGGATGTACATGCCGGCTTCCCTTAAGTTGATTAGATGGGA  
AACCAAACACCGTCTTCAAGTGTGAGGCTGTGCCATGCTCCCTCAGGGAGGAGGGGCGC  
TGGGTCTGACCAGGTCTGCCTCTGCCCTCACCAGCTGGCAGACGTGAACTGGAGAACAGC  
ACCAGAAAGGCTGGTGGTTGGCAGCTGCTCACGACACAGTTGCTGACCTGCAGCANATCG  
GCTGTGGGTGAGCANGACAGTCAAGGCCCTCACAAGCACTGTTCTGGAGTTTCGTCTGAC  
TAGGTGAACCCCTTNTGGCTTTTCGAGGACGCANGGTACCTCGGCGCTTAAAACTAGTGG  
GATN

Sequence 3587

GGGGCCATTGAGACTGCCATGGAAGACTTGAAAGGTCACGTAGCTGAGACTTCTGGAGAG  
ACCATTCAAGGCTTCTGGCTCTTGACAAAGATAGACCACTGGAACAATGAGAAGGAGAGA  
ATTTACTGGTCACAGACAAGACTCTCTTGATCTGCAAATACGACTTCATCATGCTGAGTT  
GTGTGCAGCTGCAGCGGATTCCTCTGAGCGCTGTCTATCGCATCTGCCTGGGCAAGTTCA

Table 1

CCTTCCCTGGGATGTCCCTGGACAAGAGACAAGGAGAAGGCCTTAGGATCTACTGGGGGA  
GTCCGGAGGAGCAGTCTCTTCTGTCCCGCTGGAACCCATGGTCCACTGAAGTTCCTTATG  
CTACTTTCAGTGAAGCATCCTATGAAATACACCAGTGAGAAATTCCTTGAAATTTGCAAGT  
TGTCTGGGTTTCATGTCTAAGCTTGTTCAGCTATCCAGAATGCCACAAGAATTCANCTG  
GATCTGGAAGAGGAAAGAACTGATGGGTGTTAACTGAACCCGTTTTGATTGAAACCTAC  
ACANGGCTGATGTCATTGAAACCGCAACAACTTGGCTATTTCCCTTTGCCGTGGG  
ANTATTGGTTTTTGAAATCTTTTTTGGTACCTCGGGCCGTCTAANAATAATGGGATCC  
CCCCGGCCTGCAGGAATTCNATATCAAAGCTTATCNATACCCGTCCAACCTTAAGGGGGG  
GGCCCGGNA

Sequence 3588

CCGCGGTGGCGGCCGAGGTACTTTNTNTTTTTTTTTTTTTTCTCTAAAGAAAAAACTTAA  
TGACCTTTCAAATGAATAGGCCCGATTTATGATAAATGATTAGTTAACAATTGAAGTTT  
TTTAGTTTCTTTCTTTCTTGGGAAACAAAAATACTCACTTTTATTATTAAGCCCATAT  
ATTTGGTAGTAATACAAATATTTCTAGTGGCTCCCATTTCTAGCAGCAAGTCAAACAG  
CCTCAAGAGAAAAAGTATTAATTTGTGCTATTATGACATAGCAGATAATCTGGAATAAAA  
CAAATCCCTCTAGGATCATTATATCTTAAAGTTCTTTGCCCCANTCTTAGAACATGGCA  
CTTTTGAGCATGCTAAATCATGATAAGGACATATTTCTTCTCATTTACACCAATAA  
AGGAGGAAAAAAGCCTTGTCCTATAGGCACCATCAAATAATCTACCCACCCCCAAC

Sequence 3589

CGCCCGGCCAGGTACGCGGGGGAGATGCTGCCACCTAGGTTACTTGAGTGACCCTATAC  
GGTAACCTCCTTTGCCAGGAATTTATAAACATCCTGCAGGAAAATGCANTGAANTAG  
AAGAGACAGGGATATCCAGAAGGTTATGCAAAACATCAAGAGAAGATGAGAGGAGTCTAT  
ATGTCAGAATACACATTTCCACCTTGCCCAACAGTAGAAAAAAAAAAAAAAAAAAAAA  
ANGGTACCT

Sequence 3590

CCGCGGTGGCGGCCCGCGGGCAGGTACTTTTCATCCATAAAGGCCTGCAGCTGTTTCACTG  
ATCCTTGCACTTCATCCATCACCACCTCCATACAGTCAAAGACTTTGCTCTGTTCTGTA  
ATATTTTCTGGTAGTCAGGTTTTGATTAAGAACTTCATTCTGAGAAGACCCCAAGATATGT  
CATAGGTTCCACTTTGACCTCAGTAATTTTGGCCTCAGTTGATCCTCTGGACAATATCTC  
TTTAGCCTCCTGCTGGTAGTGAAGCAAGAGCTGATCCCAAGTCTGACGTTCTAAAGAAAA  
CTTTGTTATGTATTCCTTCATCTCAGCCACAGATGCTTCCAAAGAAAAATCTGATGCTTT  
TCCATTTGAATCTTCAAACATTTTTGTAGAAGTTCCATCAGTTTCCAAGTCCGCTGCA  
AAATGTTTCAATTCTTCAAAAAGAGAAAAATGCTTTTGGCTCTAAACTTTCAAAG

Sequence 3591

NCGGCCGCCCCGGGCAGGTACGCGGGATAGCAGTCCCAGCCAAGACAGTGCCTCATTTACT  
ACATACCATTATATTATATATAGGCTCCTTTAGAAACCCATGTTCAAATAAGAGATA  
AGATACTGAAACACATAACACCTTCACTAGTTTTTAGTATACAAATATTGAGAAATAGTT  
TGTTATTAATATCTCATCCAAGAAATGCACGATTCATGTTGTTTCTAATTTTTATATAT  
AATTGACAAAATGAAGAAACTTAACACCATCCTAGATTTTAGCTGCCCAAAAAAAAAA  
AAAAAAAAAANGTCCT

Sequence 3592

GTATGACCTCAGCATTCCTAAAGTGCTGGGATAAAGTGCTCTACAAGGGCAAGTGACCC  
TAGAGAGACAGCCATCCCTGACCTCTGGGCTCCACATCACCTGACTTGCTGCTCCACCAC  
TTTGCTTTGTTTCTGGGTGCTCCATCCAGAGACGAGTGAGTTAGCAATCACTTAGTGTA  
TCAGCCAGGATGGAGGGTCTGTGCTGTGGGCCCAAGCCAGGGTCCCTGTCTGGTGATG  
AAGTAGTGGAGGGTGTGTGGTACCT

Sequence 3593

CGAGGTACATCATTTCCAGAGCAGGCACTGGCAGCGAGATAGGGTTGGAGGAGAAGTAGC  
GCCGGGACTTCCGGATGGCAAACCTTCTGTGGGTAGAGATTTCCAGCAATCTTGAGCT

Table 1

TCAGGCCTGGACAGCTCGAAATAATTCCACTTCGTCTGTCCTCCCGAACGGCTTGTGGTCCTC  
CTTCCCAACATGCTGAGGTAGGCGGCCCTTCATGTAAATGTAGGTGGCCTTTTAAAGTCA  
GATCATGTGAGTTCTTCTGGAATCTGGTTATATCCATCACACTCAGGAGACATCTCC  
TACAATTCCTTGACACCTGCAGCACTCCCGCGTACCTGCCCG

Sequence 3594

CCGCGGTGGCGGCCCGAGGTACCCCTCCCATTTGTGGTAGTCCCAGCAGTTTACCAAACAC  
TAGTTCCCTAGTAGAGCCAGCCTATGAGAAGAAAAGCTTTGTTGGCCAAGTTCTTACAT  
TAATGACTTCATAGTAAGAACTGTTTCAAAGTGAATTAAGGAAATCATCACAGAGAATA  
TTTTCAAACAGATGTTTCTCTTTTAAAAAGTGATAGTAAGATGAACTTGTAATAAATTT  
CCTCTGATGTTAATTGTAGAGTTGTGGGGGACGGCCTATTTTCTCTACCGTTGGGACTG  
GCAGGGCATTGCCACCATATACCATAGTGGTCACCAAAAAAGAAACCTCTTCAACTTGA  
AAAGGGAAGTGAACATGAGCCATGAGAAGAGATTTAAAAAGACCCCTGTGCTTGCAGNTA  
ATGCCACGTTGATTGGATTATCTGTGCTTCAAAGGGCACAGAAATCTTAAAGGGATTTTT  
AGCCCCATGGTAGAATATTGGCCTTTTGGCCCTGC

Sequence 3595

CGAGGTACGCGGGGAGTCTAGTTCCTGTTGCCGGCTGAAATAACCTGAATTCAAGCCAG  
GAAGAAGCAGCAATCTGTCTTCTGGATTAAACTGAAGATCAACCTACTTTCAACTTACT  
AAGAAAGGTATTAAGCGCCTTTCTGAGAGCTCTCAGTGGGCTTCTAAGCACGTTCACTC  
TGCCTCCTTTAAGTCTTATATTTATGATCAAGATGAAAGGGAGGGATGTATCACTGCACA  
GAGATTCTACAAGTGGATATATAAGCTAATAATGTTTTCAGTGAGCTCTTCTCTGGCAA  
CTACTTTCCAAGTGCTTTCAGCATTCCACCTTGAAGCACAAACGTTAATAATGCACAATTT  
CTTATGTTTCAGCCACAGAATGTTTCAGTGTGATTTGGTTACAACATATTGCTCTATCCAG  
GCCTCTAACAAAACCTGACTTCTTTCAAATGGACTTGCAAGTTGCTGAATTCCAAATCAAC  
ACTTTATCTTAAAAACAGAAAAAGGAGGGGAAGGGTGGAAGGGAGGGGAACAAGAAAGGG  
TACCTGCCNGGGCG

Sequence 3596

GTCGAGCGGCCCGCCCGGGCAGGTACCACACACCCCTCCACTACTCATCACCAGACAGGGA  
ACCCTGGCTTGGGCCACAGCACAGACCCTCCATCCTGGGCCGATTACACTAAGTGATTG  
CTAACTCACATGTCTCTGGGATGGAGCACCCAGGAGACAAGCAAAGTGTTGGAGCAGCAA  
GTCAGGTGATGTGGAGCCCAGAGGGCTGGGACAGCTATCTCTAGGGTCTACTTGGCCT  
TGTGAGACACTTTATCCCAGCACTTTAGGAGTGCTGAGGTCATGCCAGCCACATCTCATG  
TGCAAGATTGCCAGCAGAGATCAGGTCCAAGAGTTCTGTTTTAAAAAAGGGGACTTGC  
TTA

Sequence 3597

CCGCGGTGGCGGCCCGGGGGCCATTGAGACTGCCATGGAAGACTTGAAAGGTCACGTAGC  
TGAGACTTCTGGAGAGACCATTTCAAGGCTTCTGGCTCTTGACAAAGAGACAAGGAGAAGG  
CCTTAGGATCTACTGGGGGAGTCCGGAGGAGCAGTCTCTTCTGTCCCGCTGGAACCCATG  
GTCCACTGAAGTTCCTTATGCTACTTTCACTGAGCATCCTATGAAATACACCAGTGAGAA  
ATTCCCTGAAATTTGCAAGTTGTCTGGGTTTCATGTCTAAGCTTGTTCCAGCTATCCAGAA  
TGCCACACAAGAATTCAACTGGATCTGGAAGAGGAAAGAAACTGATGGTGTTAACTGAACC  
CATTTTGATTGAGACCTACACAGGGCTGATGTCATTGGAACCCGCAACAACTTG  
GCTATTCCTTGCCCGTGGGAAGT

Sequence 3598

GGAGCTACCGCGGTGGCGGCCCGGGGAGGTACGCGGGTTCTCATTCTTTCTCCTTT  
ATCTTCACTCTGATTTTTCTTTGTATTCAACGCTTACTCCCTTCCCATACCTCAGTC  
CTCCAGGTGACACCTGGGCGCTTTTCTGCTGAACAGCATTCCCACCAACGGCCACAGCA  
GTCGGTCAGTGTCTCTTGAAGCACTCCTGAAGCTGCAGTGTATTGCTGTTTGCCCTA  
AAAAGCCACGCCAGATTTCTTCTACCGCTGCTTCCCTGATGGGCTAGCCATTCTGACT  
TGATGTGTACCT

Table 1

## Sequence 3599

CCGGGCAGGTACTCAGTGGATGACGAGTGCTTGGTGAAATTGTTGAAAGGCCTGTGTCTG  
AAATACCTGGGCCGTGTCCAGGAGGCCGAGGAGAATTTTAGGAGCATCTCTGCCAATGAA  
AAGAAGATTAAATATGACCACTACTTGATCCCAAATGCCCTGCTGGAGCTGGCCCTGCTG  
CTTATGGAGCAAGACAGAAACGAAGAGGCCATCAAACCTTTGGAATCTGCCAAGCAAAAC  
TACAAGAATTACTCCATGGAGTCAAGGACACACTTTCGAATCCAGGCAGCCACACTCCAA  
GCCAAGTCTTCCTAGAGAACAGCAGCAGATCCATGGTCTCATCAGTGTCTTGTAG

## Sequence 3600

CGGCCGCCCCGGGCAGGTACTGAAGTCCTCAGCCTAGTGCCTCCCGATGCGTTATTTTCAC  
ACAAGCGATCGGGTTAACGCCACAGTTCACATGGCTGGGGTGGCCTCACAATCATGGCG  
GAAGGTGAAGGAGGAGCAGAGGCAGGTCTTACATGGTGGCAGGCAAGAGAGCCTGTGCAG  
GGAAATTCCTTCCCAGGCCACAGAAATGGAAAAGCCAGACACGCTGAAAATGAACTCAGT  
CCTTCAGTCTGAGGCTGGAAGTCTGGGGTCAAGGTTGTGGCCAATCCTGTGTCTGGCA  
AGGCTGCTTCCTGTTTGCAGACACCATTTTCTCCTGTCTTCANCCACAGCAGT

## Sequence 3601

AGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGTAACAGATCTAATCTCCACGTAAGC  
CTCTTACTGGANAAGAGTAGATGGGAGGGCAGGTGGGATCTATTTAGACAAATCCGATA  
TATTCAGAATGATTCACTAGGCAAAGAATTCCTCCTGGTAACNAATCTGTGTGTCAAGGT  
CCTTACCTTGGCTCTCACTGTCTCAGGATTATGGAGGGGAAGATGATGCAGAATTCGCA  
CATGTCTTCTGGATCATGGGGGACTTTGCTGAGTGTGCCTGCCATGGTCCGATCTCTGAT  
TGATAGGAGTGACTGCTGAGATC

## Sequence 3602

AGGTACTTTTTTTTTTTTTTTTTTGTCTGGAGAGAGAGAGATGTTTTATTTTGGCAAAGCAT  
GTGAGAGTAAGTAGCAAACATCATGACACTTCACCCCTCAAATATTTTCCCACGTATCAC  
TTAAGAACAAAGGGCATTTCATTCTGTTACATGACCACAATACAATCAGCACAGATAGATAT  
TAACATTGAGACAATGCTCTGATGTATTGGGTATCTACTATGCAGTTCATAATCAAATAA  
GGGTTTTGGTAACCTGGGATCCATAAATGGTCTGCAAGGTCAGCCCCTGTAGACCTGCAC  
TTAGTGGGTGCCATTTCCCT

## Sequence 3603

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTGGGAGAGAGATGTTTTATTTT  
GCCAAAGCATGTGAGAGTAAGTAGCAAACATCATGACACTTCACCCCTCAAATATTTTCC  
CACGTATCACTTAAGAACAAGGGCATTTCATTCTGTTACATGACCACAATACAATCAGCAC  
AGATAGATATTAACATTGAGACAATGCTCTGATGTATTGGTATCTACTATGCAGTTCATA  
ATCAAATAAGGGTTTTGGTAACCTGGGATCCATAAATGGTCTGCAAGGTCAGCCCCTGTA  
GACCTGCACTTAGTGGGTGCCATTTCCCTGTC

## Sequence 3604

AGGTACGCGGGGGGAAAAAACACCTGATGAGGCTGCACCCTTGGTGGAAGAACACCTGA  
CACCGGCTGAAAGCTTGGTGAAAAAACACCTGATGAGGCTGCATCCTTGGTGAGGGAA  
CATCTGACAAAATTCAATGTTTGGAGAAAGCGACATCTGGAAGTTGGAACAGTCAGCAG  
AAGAAACACCTAGGGAAATTACGAGTCCTGCAAAAGAAACATCTGAGAAATTTACGTGGC  
CAGCAAAAGGAAGACCTAGGAAGATCGCATGGGAGAAAAAGAACACACCTAGGGAAA  
TTATGAGTCCCGCAAAAGAAACATCTGAGAAATTTACGTGGGCAGCAAA

## Sequence 3605

CCGGGCAGGTACCAGATTTTACCCTATGCCTCCTTCACTCTGGGAGTCTTCCAGAGG  
TCTTGCACTCGGGAGAGCATGCTCAGGTTTCCCAGCTCTACAAAATCACCCAGAATGCC  
AAAGACTTCAACACAAGGATACTGTGTTGACCAAGTGGTCATGCCACTGCCTGTTGATTG  
TTGAAAATATTGTTACACGTATGTTCTGTTACTGATTGTCAGAAAGCTGGTTTTGAGA  
CTGCAGCTTGGACTAAATTCAGTCATCTGGCTGTCTGGGGAAGCATGCTGACCACTCTGG  
TGTTCTTTGGCATCTACTCAGCCATCTGGTCCACCATTCTCATTGC

Table 1

## Sequence 3606

AGGTACCTGAATGAGCCTGGCCTGGTGTGTGTCTCCAGACTCGACACAGCCCAGAAAGA  
AACAGGTGAACACACTCCTGAGAGCCGAACTGGACTCTTGCTGATGGACTCATGGCAAT  
ACTCCAGCCAAAGGCTGCTCCGAGTCTTAGAAGGGCTCGGAACTGTCCTGGGTAAGCCTG  
TCGACACAGTAGGGACAGAGAGGGGTTAGTGTCTCTTTACAGCACTAAGCATGTTGTT  
GCCCACATGCAACAGTTATGACAAGAACAGCAAGTCCAATTCAGGAAATACATGCTTTA  
TCAAAGAAAAAGATGTGACTGACACAAAGGCTTGCTCCAGAAGCAAAGGCGCAC

## Sequence 3607

AGGTACGCGGGGAGACCGTGTGTTTCCAAATGGCGGCAGCGATGGATGTGGATACCCCG  
AGCGGCACCAACAGCGGCGTGGGCAAGAAGCGCTTTGAAGTGAAAAAGTGAATGCAGTA  
GCCCTCTGGGCTGGGATATTGTGGTTGATAACTGTGCCATCTGCAGGAATCGAGCGGCC  
GCCCGGGCAGGTACGCGGGTGTGTTGTGGTTAGTCAATGGTCTATGGTAATTTTTTATA  
GCAGTCCCAGCCAAGACAGTGCCTCATTACTACATACCATTATATTATTATATAGGCT  
CCTTTTCAGAAAACCCATGTTCAAATTAAGAGATAAGATACTGAAAC

## Sequence 3608

CCGGGCAGGTACTGAACACTACATGCTATGCACTGCTCCAACATTTTTAAGTGTCTAAT  
TTATTTAACTCTCACACATTTGAATAGGGAGGTTTCACTGATCAGGAAATAGAGGATCAG  
AGCATTTAAGTAACTAGCTCGAGGTCACAGAGCTAATAAAGGGAAGAGCTAAGATTCAAA  
CTCAGACAATCTAGCTTCAGAAGTATGCTTAATGTGTAAACATCCTTTCTTTTCATGTCC  
TTCAACATTTCCATTTCCATCTGTAACCAAAACATATGGAAGGCATAAATTTCTTTTATG  
GGTCTTAACATCACCACAGAGCCCTAGATAAATCTTAAGTAGGTGCTGGAT

## Sequence 3609

AGGTACAACGAAACAAAGAGGAAAGCAGACCCATGGCTCAGGACACATGGGAGTCCAC  
CAGCTTGAAAAAATTTACAGAGCTGGCATTTCATCAGTGCAGACACGGCTCTGAAAA  
CAGTAATTGCTGCCTTATGGGCATGATACGCCATTTCTACTCTGACCTCCTCCAGGAG  
AAACTCTTCTGCAAATGACCACAGTACCTGCCCG

## Sequence 3610

CCGGGCAGGTACAATCTGGAGCTGGCCTTTTCATCATCATCTCTGCAAGACTCATCGCCAA  
AGCATCCTGGCAAAGCTGCCACCCAAGGGGAAGCTTCGGAGCCTGTGTAGCCAGCATGTG  
GAAAGGCTGCAGATCTTCCAGCACCTCCACCCCATCGTGGTCCAAGCCGCTTTCCCTCCA  
CTCTACAAGGAGCTCTTCAGCACTGAAACCGAGTCACCTGTGGGGCTGTCCAAGTGACCT  
GGAAGAGGGACTCCTTGCCCTCTCCCTATGGCCTGCTGGCCACCTCCCTGGACCCCGTTC  
CACCTCACCCTTTTCTTTCCCATGAACCCTGGAAGGGTGGTCCCCACCAGC

## Sequence 3611

CCGGGCAGGTACATGACGTTGCTTACAAGTTTGATGTAGGACAATTAATCCTTTTCAAAC  
ACTTCTAATTTAGATTAAATCACTGACCAGCATTAACAAAGAACTCTATAATAATAGGG  
TTCCCTCCTGGCACCCAAAAGTCCAGGAGAAGCTCCTGCCATCTGCAAACTGAACCTGC  
ATAAGCAGGTTGGAAAAGGATCAAGTGAACGAATGGAAAGTACCT

## Sequence 3612

AGGTACTTTTTTTTTTTTTTTTTTTTGAATACTCAAAAAACATATTTGTCATGTGC  
CAGGAAAAGGTAAGGAAAAGGAGCCTTCATGTGCCAGCCCCTGTGCTGAGCCCTGGAGC  
TGTAANATGAGTGAGGTGGATTTTTGTCTGTAAAGAGTTTGCCGATGGGACCAAGTCT  
GTCATCTCTTTTCTGGCCTGACCGAGGACAAGCACTTCTAGTAACCCTGTGAATACC  
GATGCATCCCGTCAGTCAGCAGCTTGTGCGGAACACCAGCTGCAGGCCAGGCACCGTG  
CTGCAAGGCGTANATATGTTGCTGAACATGACTCCCTCCAGATGTTGAGGATTTAACAG  
G

## Sequence 3613

AGGTACGCGGGGAAAGGGCAGCAGGCCGCTGCCAGGCAGTGTGTGTCAGAATCCCACAA  
CTCTCTGGGCTCCTTAGGCCACAGGCTCTGGACTCTATGAACAGTTGGTGTAGGCATG

Table 1

GGGAAGATAGAAATGTTCTTGTGGCCTAGATTCAACCAGGAGGCCTCCCTGGAGGAAGT  
GTCCCCTCTGAAGGTGTGAGACTTCCTGCCTATATCTGTGAGCTGGGGCAGGGGAGAGTG  
GAGGCTCTGGAAGTGGCCCAATTTAACTTCATTTACCACACTTTAAGAAATCTTCCCAGG  
CTGGGAGCAGTGGTTCACACTTGAATCCCAGCACTTTGGAAGGTCAAGGTGGGAGGA  
Sequence 3614

CCGGGCAGGTACTTCCTGTAATTGACAGCCTTGCCCTGTTCCCTCATGGCATCATTCAAGG  
TCATCTTTAAATGAGAGAGGAGGGAAAGAAAGAAAAGAAATCATACCGTTATGGTTTTCA  
AATGCATCCAGAGGAAAGGCAGGGTTGTTTTGAAAAGTTTACTTCTATCTGAAAGCTTC  
TAGCAAATGAAAGCAACAGTGCAAAGCTGAACTACAAATAATAAGCACAATTATGGCA  
GGAATCTGTCCACATTACCCCAAGCTACTGTGCCATTAAAGAGGAAAATAGACAGTTGAG  
CTGCAGGTTAGTCACCAACTGGGAACATGGAAGAACGTCAACAATACATACAGGAT  
Sequence 3615

AGGTACAGCTCCCAGGAATCCCTTCTCAGGCCTGTTTCAGTTCAAACTGGACATATTCC  
TGGGTTTTTCAGATTGAAGAAACAAGATTTTGTACGATTTTTGTTAACCTCTTTTTTGC  
AGTCTTTTTGGTTATTTGCTGGTTTGTATCTGTGTTGAATCAGTTGCAATTTTGGTTTC  
TGGCATTATAGCAGCCTATGCTATACTATGAGAAATAGATATTTTTTAAAGGCACTTTTT  
TCAGCAGCTACCATTTTCTAAAAGTTTTCAATCAGTAGTATTTCCATCAAATGCTAAT  
TATTGTTGTTGTTGTTGATTAAAGACAGGGTCTCCCTCTGTCACCCCCGGCTGGA  
Sequence 3616

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTGTAGAAGACATCATTACCTGT  
ATATGCCCCCTCTTCTCAGTTCCTCAATGGACATTGGCATTGATGAGCCCATAGTACA  
TGATAAGCCTACAAGGACAATAGTGAGTTTATATTTTTATGTAATGATTTTAGAACATGG  
GATAATATCCAGAGTGATGGAGGTAAAACATTCACATTTCCATATTCCAAACTACTTCA  
AGAATCACTAGAGTGCAGAAGNTATAACTCTAAATGCTTGAATGGAGAAATCATCTGTCC  
CAAGAANTACACCCATNTGACTTTNCAATNAATCTATCTCAAAGGCCTACNATTTAACA  
ACAACCAGCATACAACAAAACTTTAAAAGAACCCNAATGAAAGTTTTGTATNAAGGTTGG  
TGTCTTTTTTCTATACATTTTGAATTGACAAAAAAGCTGCTGGGAGCTCACCTGNNTT  
TATTTTATTNTAAACCATTCCTATTTTAT  
Sequence 3617

AGGTACTGTGTCACTTTATGGGGTTGGTGCTTGCCACACTTCTTACAGAAAGTCCGGCGG  
GTTTTAGGGACGTTAACCATGCTTGCGTCCCCGCGTACGCGGGGGGGGAATTGGAGGCT  
TCTAGGAGGTGGCACGGTGCACGCCAAGATGGCTGTGTCCACAGAGGAGCTGGAGGCCAC  
GGTTCAGGAAGTCTTGGGGAGACTGAAGAGCCACAGTTTTTNNAGTCCACATGGGACAC  
TGNTAGCCTTCATTGTTTTCTCACCTTNATGGGCACCGAGCTGCTNNTGCTGCTGCTGG  
TCGNTGGCCACTGNTGTTGCTGCAGCTCCCCCGNCCCCCANGGAAAAGCCTCAGGAAGG  
AAAGACCCAAGGGAAGTGGATAANTTGGC  
Sequence 3618

CCGCGGTGGCGGCCGAGGTACCATGAGTTCAACCACATCCTTACTGATTTTCTGCCTGC  
TACATCTGTCTGTGCTGACTGAGGGATTTAAGTCTCCTACTACAGTAGTGGATGCATC  
TCTTACGGGTCTATCGTTTTTGGCCTCACGTGTTATGATGCTTTGTTGTTAGGTGCATG  
CACATTAAGTATTGCTCTGTCTTCTTAGATAATTGACCTCTTATGATTATGAAATGCAG  
ACTGTAATTTAACTGAGATGGTTAGAAAAGGCCTTTCAGGGAAGTTGGCCAACTTCTGG  
CAAGCTGATGGGGCAAAGGTGAAGGCTGACAATTGCCTGCACCAGAAGCAGCCAAAAGG  
TCCCATCACAGTGCAGGTCAACACCAGGAAACCTCAGCCCTGGCTTTGCATTAGCCCT  
AGAATAAGCCAATCCAAGCCTGACCCACAAATCCTGTGAGATCTAGGCCCATCCCGTCCT  
CTTGGCATGATACTTATCTTCCTTCCCTAA  
Sequence 3619

CGAGGTACTTCCAAGACTGAGATTTGGGTGCTATAGCCTTTTTGCTTTACAGGAAAGCAA  
TGGAATAAGCAATTCCTTCAGCGCTGGTTGTAGATCCCGCGTACATCCAGGAGCTA



Table 1

TGGAGAAAGAAGCAGTCTGATGTCATGCGCTTTCTTCTGAGGGTCCGCTGCTGGCAGTAC  
CTGCCCCG

Sequence 3620

CGAGGTACACACAAAGACAAACCTGAACTTAATTTCAAGGAAAACCTAAACCCATGCACA  
AATAATTGGTGAGCCTTCATTTCCCTGACTTCAAGTTTCCATGTGAGGACTCATGCTCTC  
TCCACTTTCTTCTTGGGAGGAGGGAAGATTTACCTAATGGGTAAATTTGGGCAAAGCACA  
TTGAGTGTGCTTGTGTTGGCTCTGAGTCTCTTTGCAAACATGTGTCTGCCACAGTGACAT  
GAGTTTGCGTTGACTGTCATGTCTGCAGGAAGCTGCCTGCTCCTGTGGCCATGTCAAGCA  
ATTCTTTCTTTCAACTGCAACTGTGTGTAAGAGCTTAGTCTGAGAAGAAATGTTCAGAAG  
CTCACTGTGGCTGCACATCTGAGCCATGTCTTCCATTAGTTGTCATGAGTCAGCAATAA  
AGCGGGTATGTTGATGTCTATCAATCTAATTCCTATGTTCTGAACTCAAGGGAAAGA

Sequence 3621

CGAGGTACGCGGGGACCTAGGTTACTTGTAGGACCCTATACGGCAACCTCCTTTGCCAGG  
AACTATTTATAAACATCCTGCAGGAAATGTGAAGTAGAAGAGACAGGGATATCCCAGAA  
GGTTATGCAAAACATCAAGAGAAGATGAGAGGAGTCTATATGTCAGAATACACATTTCCC  
ACCTTGCCCCAACAGTAGAAAAACATAAGAAGAGAAAAACATTAAAAATGACAAGGAAGT  
TAATGGAAGTCAGCAATGTGATGGTGTGTTGGAGGTGGAGCCTTCAGAAGGTAATTAATGC  
CCTTGTAAAGAAGAGACCAGAGAGCTTGCGCACCTTCTTCTGCCATATGAGGAGCCAAGA  
AGCCGGCTGTCTGCAACCTGCAAGAGGACCCTCACTAGAAGCTAGCCATACTGGCATCCT  
CATCTTGGCTTTCCAACTTCCAGAAGTGTGAGAAGTATATGTTTGTGGTTTAGTCAATGG  
TCTATGGTAATTTTTTATAGCAGTCCCAGCCCCAAGACAGTGCCTCATTTACTACATACC  
ATTTATATTATTATATAGGCTCCTTTAGAAACCCATGTTCAAATTAGAGATAAGGATCTG  
AAGCACATAACACCTTCTTGTGTTTGTAGGTATACAAAAATTTGAGAAAAANGTTNGNTAT  
TAATATCTTATTCCANGAAATGCAGANTTCATGGTGGTTCTAATTTTTTATATATTAAT  
TGGNCAAAATGAAGGAACTTNACACCCATTCTTAAATTANCTTGCCCAAAGAATTGGA  
AAGGATTGAAAAAAATNT

Sequence 3622

GCTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACCATAA  
ATGTTGTCTCTTAAGAGAATGTCAAGTTTCAGTAAATTTACTTTGAACTTCAAAGTAGTG  
TGCAATCACTTTGATAAATAAGCCGATCTTATGAAATTTGAAAGTTACGTTTATAATTAT  
ATTATAAAATAAAATGTTGAATTTTCTGTTTTAACTTCCCCGATGTCCCATATTGATTTT  
ATTACATTCACAGATTTTTCTTTTCAAAGTAAGCTTCACCTGGTTTGACATCAGCAGCT  
TATTTCTTGCAATCTATTTAATTGAGACTTTTCTGCTGTTTATCCTAAAATGCAGATAAA  
TGGCTTTTCAGCACACTGTTTATAGTATAATAGCTCCTGAAGTGAGTCAGCATTATCAGCT  
AGAGTCTCCATGTCATAACTAATGCTCTCTGCTTATACTTTCTCTGCTAGTGAGGAGCC  
ACTGAACTCCACAGAGACAGGAGCCTGGCATAGTTGGGGGGTG

Sequence 3623

CGAGGTACTTTGTTACAGCAGCCTGAAAGGACTAAGACACCGACCTAGTCTCCCTGATGA  
AAAAGTTTCTCTCAGACTTCTACCTTTCCAATGTGGCCAAAGCTTTTCATTCCGAAGAA  
GTTTCCTTTCTGAGAACACTCATTGTGTCGNTTGGCTTTCCCGTCTCTGCTTGACGCAT  
GAACCAAAACAGAGGCAGCCAAGCAGGGGAAAAAAATCCTAGGATCAGAGTCCACTCT  
ATGCCCTTTTGAGCTTCAAAGGAGAAAGAGACAAAAGCCAAAAGCAATGGAGGTCAAGC  
TGCCCGGTACCTGCCCCG

Sequence 3624

CGAGGTACGCGGGGGGCCCCGCTTTCTTACTGATAGTAGGATATTTCTGCTTTAGTTAT  
TGTCACCTTAAATATATTTTCAATGTTGAAATCCTCACAGCATGCTTGATGAAATCTAGT  
TTTCAAATTTTCTTAGGTATATTTCTGTACGTTGGCATGATAACAAATGCAATAACCCA  
AAAGACCCCAAAGCTAGTGTAAATCCCTTTTGCAATCCAAGCATGAGGATTATCTTCAT  
GTTGACAGTGCGTGAATGTTCCGGTAGGCTTTGTCAAGCTTGATACAATAAATTATATAT

Table 1

GTCCCTTTTCTTTTAGGGTCTCCTGTTAAAGATGGTCTTCTGAAGGCTAACTGCGGAATG  
AAAGTTTCTATTCCAACCTAAAGCCTTAGAATTGATGGACATGCAAACCTTTNAAAGCAGAG  
CCTCCCGAGAAGCCATCTGNCTTTCGAGCCTGNCATTGAAATG

Sequence 3625

CGCCCGGGCAGGTACGCGGGGGAGGAGGTGGATTTGAGAGATACCTCCCCTCCTTCTGCT  
CAGCTGCCTTGCAGTAATTAACCTCTTCTCTGCTGCAACACCCCTACTGTTCTCCGTGT  
ATTGGCTTTTCTGGGCAGCAGAAAAAGCTTGGCCAGACCACAAGCGGNAATGCAAATGC  
CTTAAAAGCTGCAAACCCAGATATCCTCCAGACTCCGTTGACTTCTTGGCAGAGTTGTC  
TTCAAACCTATGGATGGAGCACCTTCAGAATCAGAGAAGCTTTACTCATTTTATGATCTG  
GAGTCAAATATTAACAACTGACTGAATATAAAAAAGAGGGCCTCAGGCAACTCGTAATG  
ACATTTTNAACATTTTCATGAGAGAAGAAATTNCAGGATGCCTCTCAGCTTGCCACCTGCC  
TTTGACCTTTTGAAGCCTTTTCAAAGTGATCTGCA

Sequence 3626

CCGCGGTGGCGGCCGAGGTACGTGGCGTAGCATTCCATGTTGAGCTTTGACATTTATTTT  
CTCATATCAACCCCTTTTACACGTGAAACACAATCTCGCTCTTGAAGCTTAACTGCATG  
ATCTGTGAAACCTGTATTTATATTTTCTTCAGTGTATTCTTGTCGTGTGTCTCTAAACA  
AACCAAAAGAAAACCTTTCAAATCTAAAGTATTCATTCTCCAATTGGAGCAAGAGGAGTC  
AGTTAGATACTATCACGGCATTCAATTTGTGGCTGGCTTGCATATTTACTTATGATTGAT  
AATAATCTATTTTGCTTTTGAAGCCTCCCGAGAAGCCATCTGCCTTCGAGCCTGCCAT  
TGAAATGCAAAAGCTGTTCCAAATAAGCCTTGGAATTGAAGAAAGAACAAACATTGAG  
AGCAGGTAAATTTTTAATGGAACATGCAAGACCAATATTTCAATATTGGGACATTTT  
TGATGGTCCTTCTATCCCCAATGCTTTATTTTTTCAACTTTTGATGAAAAGATTGATC  
TAGGGTAATGCCAATACTGGTATTGNTGTTTGGAAAAGCTGGTATTACAAGCACAGTAAT  
TTTTCAATATCTTTTTT

Sequence 3627

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGCGGGGGAGAGCTTTTGG  
TTTGCTGAGGTTTGTGAGATTTTCCAGCTCAGGGCCCAGCCAGCTGGCAGGAAGCAGGAC  
AGAGGTCACCTGAATTCAGACCACATGTCCCTGTTAAATACATTAGCTTTTAAATCAATC  
TTTGTTCAAAGTCCAGTGAGTTGCAAGCCTAATGCTCACCTGCAGAGACAGAATTCCTGA  
GTGAACGAACAGAGCAGCTCCTCTTCATCTCCAGAAATGACCTCCACCTTCAACCCCCGA  
GAATGTAACTGTCCAAAGCAAGAAGGGCAAACTATGGCTTCTTCTGCGAATTGAGAAG  
GACACCGAGGGCCACCTGGTCCCGGTGGGTGAGAAAGTGTAGCCCAGCAGAGAAGGCTG  
GCCTTCAAGATGGAGACAGAGTTCTTAGGATCAATGGTGTCTTTGTGGACAAAGAAGAC  
ATATGCAGGTTGTGGATCTGGTCAGAAAGAGTGGGAATTCAGTGACTTTACTAGTTCTGG  
ATG

Sequence 3628

ACCGTAAGACGTGTTTTGCGACCCGGCACCACCGTAGTTTTACNGCCCGGTGAACCTGT  
GGAGNGTAGCAAGTTNTTTAGAAACAAGGAAATGGCTGTGCGTGCCCTCGTGGCATGTC  
ACGTGGCTTGNCAGTCCCGGCTGATTGGCT

Sequence 3629

ACCGCGGTGGCGGCCCGAGGACTTTTTTTTTTTTTTTTTTTTTTCAATTGANACAGAG  
TCTTGCTCTGTCACCCAGGCTGGAGTGCAGTGGCATGATGAATGAGTGAATGACTTGAGT  
CAGTGAACGTGAAAATGTTTGGTANATTGTAATCGCCGATATTGTGTAATACGTAAATA  
CTATTAGGAACACAGCAATGCTTATATTTCCAGCTAGGCCATGCACAGGAGGCAGTGT  
GCCACAGCACACTGAAAAGGTGGCCAGCCCTCACTCAGAGCCTGCCTTACCACCTGCCC  
G

Sequence 3630

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTGCGGGGGGAAAGCTGATATT  
GCAATTGCTCCATTAATATTACCCTTGAGAGAGAAGAGGTGATTGACTTCTCAAAGCCC

Table 1

TTCATGAGCCTCGGGATATCTATCATGATCAAGAACCTCAGAAGTCCAACCAGATGTTTT  
CCTTCTTGATCCTTAANCCTATGAGAATCTGGATGTGNCATGGTTTTTGCCTACATTGGG  
GCAGGGTAGTTTAATTCCTGGTCAGAAAATTAANCCCTTACAAGTGGCACACTGANGGAG  
TTGGAAGAATGGAAGAAGAACCACAAAGTAGTGAATCAACTAATGAATTNGGATTTAA  
TAG

Sequence 3631

CCGCGGTGGCGGCCCGAGGTACAGGTGTCTTTTTGATTGAATGATTATTTTCCTTTGGG  
TAGATACCCAGTAGTGAGATTGCTAGGTGATTGTTCACTTATTTTAATTCCTTGAGA  
AATCTCTATTCTGTTTTCCATAGGGGTGAACATAATTTGCATTCCCACCAACAGAGTATA  
AGTGTCCCTTTCTCTGCATCCTTGCCAACGTCTATTATTTATGACTTTCATAATAAT  
AGCCATTCTGACTGGTATGAGATGGTATCTCATTGTAGTTTAATTTGCATTTCTCTGAT  
GACTAGTATGTGGAGCTTTTTTAAAGTTTGCTGGGCACCTTTGTCTTCCCAAAGCA  
TTTTAAATCTCTAGAATGATCTCACGTAATTGCAGTGCTATATTATTTGGAGTAGAAAT  
TTCTAAAGGCGAATAATGCTCCTTGGACTTAAAGAATGTTTGCTCTAAATTAAGACAGTA  
TATAAAACCCGAAAATGCTTTCCTGTTCAAAAGCATGAAACACTATAATCTCCATGCACC  
ATGAAGATATCTTACACATTCTCTCGGGGGCTCTGGTTTTGNTCTGATGTTGCCCA  
TTACAGGNGAACACCTGGGTAAACAACATTCCTCAACGCTATAAANGGTAAGCCACACGC  
AGTTGCTTGGCATAGGAAAGNTTAAAAAGATCTGNTGGGAAAATTCCCCATCTTCNCAG  
TTCTGNCCTCCCTGCNAANATTNAATTTCTTTNAAGGATCC

Sequence 3632

TGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGCTGTAGGCCCGGGTGGTTGGAAT  
TGACCGCTACCCCGCAAAGTGACAGCTGCCATGGGCAAGAAGAAGATCGCCAAGAGATC  
AAAGATAAAATCTTTGTGAAAGTGATACTACAATCACCTAATGCCNAAGGTACCTG  
CCCG

Sequence 3633

CCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTCTCCGAGA  
CGGAGTCTCTCACTGTCACCTGGGCTAGAGTGCAATGGTGCTATCTCTGCTCACTGCAAC  
CTGCGCCTCCAGGTTCAAGTGATTCTCCGGCTCAGCCTCCTGAGCAGCTGGGATTACAG  
GCGCCTGCCACCACACCTGGCTAATTTTTGTATTTTAGTTAGAGACGGGGTTTCTACTA  
CGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCATGATCTGCCACCTCTGCCTCCCAAA  
GTGCTGGGATTACAGGTGTGAGCCCCTGTGCCCAGCCTTTTTTTATCTTTAAAGTAGC  
CTGTNCCTTCTTTAACTAACTCTCATGTNATACAACATAAAGAAATAAAGTTNCTAAA  
AATATCTTTCAATCTATATAAATTTAAAGGNGGGNAGGCTTTTTATATTGGTTTGAT  
NAAGNAAAAATTAATAAGCCAATTTGAAAATTGGTTAATT

Sequence 3634

CNCGCGGTGGCGGCCGCCCGGGCAGGTACGCGNCGAGGCATTGAAGCAGCCAGCGCAGGG  
GCTTCTGCTGAGGGGGCAGGCGGAGCTTGAGGAAACCGCAGATAAATTTTTTTCTCTTT  
GAAAGATAGAGATTAATACAACCTACTAAAAAATTAGTCAATAGGTTACTAAGATATTGC  
TTAGCCGTTAAGTTTTTAACGTAATTTAATAGCTTAAGATTTAAGAGAAAATATGAAG  
ACTTAGAANAGTAGCATGAGGAAGGAAAAGATAAAAGGTTTCTAAAACATGACGGAGGTT  
GAGATGAAGCTTCTTCATGGAGCAGTGAGTACCNAAGCCGCANTAAAGTACCTN

Sequence 3635

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGGCTCAAGGACTCCTCCAGCCTCAGCCTC  
TCGAAGTGCTGGGATCACAGGTGTGAGCCAACGCACCTGGCCAACCTTTGTTAATTTTTG  
AGATGTCTGCCAAATACCCAATTACGTATTCATAAGAAATCAGTTTATCTGTCATTCTTC  
AAGTAAAAATAATTTTCATGAAAAACCAATAAAAAATAAGGAGAAACATTGGCTAGTTC  
AGCTAACAACTCAAATAATCCATAAGTGCTTCTTGAGACATCTCATATATCTCAGAATG  
CGGTGAAAACGCAATATGGGTGCTTCTTATTTCTTCACACAGAATATTAAGGTTGAT  
ACTCAAGGATTGAGATGTGATTAAAGTAATTTTATTCCTTCATCAAGACATTCTAAG

Table 1

TNAACTTTTTTTTTTTTTTTTTTTTTT

Sequence 3636

CCGGGCAGGTACTTTGAGCTTATTGTTTTATTCTGTATTAAATATTTTCAGGGTTTTAA  
ACACTAATCACAACTGAATGACTTGACTTCAAAGCAACAACCTTAAAGGCCGTCATTT  
CATTAGTATTCCTCATTCTGCATCCTGGCTTGAAAAACAGCTCTGTTGAATCACAGTATC  
AGT.ATTTTTCACACGTAAGCACATTCCGGGCCATTTCCGTGGTTTCTCATGAGCTGTGGTTC  
ACAGACCTCAGCAGGGGCATCGCATGGGACCGGCAAGGGAGGGGCAGGATTTCCGGGACC  
CACCTAGGGCCCTGGAAAAATGGACCATTTTNACTTAAAAAAGGTTCTTNCCAAAAAAC  
CATTTTCTTNAAGAACTTACCTAAAGGGCCCTTTTAAATGGTAAAAATTTCTTTTAAAA  
TGGTGTATTCTTAAAGGAAATTCAAAAATTTGGTAAATAA

Sequence 3637

CCGCGGTGGCGGCCGAGGTACGCGGGTATCTCGATAGTGAGGAGGATGAGGAGTAGCCAG  
CAGCTCCCAGAACCTCTTCTCCCTTCTTGGCCTAACTCTTCCAGTTAGGATCTAGAACTT  
TGCTTTTTTTTTTTTTTTTTTTTTTGGATGGTTCTCACTATATTGTCCAGGCTAGAG  
TGCAGTGGCTATTCACAGATGCGAACATAGTACCTGCCCCG

Sequence 3638

CCGGGCAGGTACAACAGAAGGCACTGTTATCCGCATAAATCCATTGATTCTGCATGGCAA  
AAACCTGAGACGTGCAAGTCTATCCAATCCTCTAAAACAACCTTGGGCATTGAGCCTTTG  
GAACATATGGGTTGTCTTTTCCGTCCAATGATTGTTTTCTTTCATTTTCACTTACAG  
TAGCTGTTTAAATATATATTTTCAAGGTGACAAAGGTCAAAGGGGAAAGAGTAGATAAAA  
GTGCTGCCAATGCCAGATGGTAACTGGCACAGCAGGAGGGGCCCTAAAGCAGCCCCCTCA  
TTTCATCCCCCTTGACCCTCACACTCCTCTTGTGAAATAAAATGCAGCGATGACATTTGGT  
CAGCTGATGTTCTTCTTCCATGTTGTTGCTGGGCACAGTCC

Sequence 3639

ACTATAGGGCGAATTGNAGCTCCCCGCGGTGGCGGCCGAGGTACCCGTATGTGTGATAGG  
GCAGGCAGAGGGCTCCACCTGCTCTGCCCTTGGCAAAGGCCCTTGGCTACACTGGTGAAA  
ATGCCAGCTCGGCTTCTGCACGGATACACTATGTTGTGCCATCCAAGTGGAGTGCCGGTT  
GGACCCCAAAGGCAGGGCAGGGCAGGGGGAGGGGGTATTTTGAAATGTTTTCAGGAGCTC  
TGTCACAGCTGTCTGTCTTCCAGCCCCGGAAGTGTGCACAAAGCTACAAGGACACTGAT  
GAGACCATGGATCTGCTGCTGTTCTCTAGGGAAGACTTGGCTTTGGANTGTGGCTGCCTG  
GATTCTAAAGTGTGCTCTTGTACTCCATGGAAGTAATTTCTTNTAGTTTTGCTTTGGC  
AGATTTCCAAAAAANTT

Sequence 3640

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACTGTCCAAGTGGATGCT  
GCCCTGGTGGCTGAAGGCACACTTCATGATGCTGTCCAGGGTCATCAGGGAGACATGTTG  
AAAGAGCTCCAGACGTGAGTTTTGGGCAATGTGTTCTCCCATTTGTTTCGTCATCATCCG  
AACACTCTCAGACATCATGGTGATGAATATTTTCAAGATGCTGATGTTGAAGCCAGGTTT  
CACAATCTGGCGGTGCTTTTCCATTANAACCATCCAGGGTCACAAGTCTTCGACCAAC  
CCAGGATTCAAGGATTTTGTGGCTAACAGCACTTTTGGGATCTTGTCTTTTCAGGGAGAA  
TCTTGGCATAAGTCTGGGGTCATGGACACTGAAGAACATCNTAAAAGGGTC

Sequence 3641

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACCATCACATGC  
TGGTCAGAGTGGCCATTTGTCCCAAGTCAAACATAACATGCTACAGTGTGGCAGCAGAG  
AAAAGCAAACATGGCTATTCTCTTGGAGGTAATGCAAACCTAGATCCTAAACTGTGGAAAC  
CAGTCTGAAGATTTCTGGAAAAAAAAGGATGGAAGGCAGAGCTATGCTTTGACCCAGCA  
ATCCTACCCCATGCATCTACCCAGGGAAAAACACATGCGTCTATCAAAAAGACACATGA  
CACTCACACGTCCACGGGAGTGTACTGACAGGAATAAAGATGTGGAAGTATCTAGATG  
CCCACCGAACAGAAACTGGATTTTAAAAATGGTGGTTCCTATACATCACAGAATGCTA  
AAAAGCCACTTAAGGGAA

Table 1

Sequence 3642

CTACTATAGGGCGANTTGGAGCTCNCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTT  
TTTTTTTTTTTTGGAGAATCAAACCTTTCCGGCTTTATTCTTTGGGAAAACCCCTGGT  
CTGTTTTCAATCCTATTGGTCCAGGCCACCATTCTATGATATGAAGGCCTAAATTAGGAA  
AGCTAGGTGAG

Sequence 3643

ATAGGGCGCAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTAGTAGAGA  
CGGGGTTTCACCGTGTTAGCCAGGATGGTCTTGATCTCCTGACCTTATGATCCGCCTCGG  
CCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCATGCCCGGCTGCTTAAGTTTCTTA  
AATACAGAAAGGCTATGCTGATACAGTGTTTTTGCCTTTAATTGTTATTATTTCTTAA  
TTTAAAAAGAAACCTAGGGCTTANATAGTCCTATCTTCTATTTGGATGTCAGCAAGGTTA  
AAAAGTGCAATGTCAGGAGTATGTAGCTATAGGTGGCCTGTGGCATTGCTTACAGAAAC  
NGGCAGAAGGATCCGCAAGGCCCAAGAGGCTTGCTCTAAGAACCACACCACCATTAACAAA  
GCTGTGAAAGGAGGC

Sequence 3644

[illegible]

Sequence 3645

CCGGCGAATTGGATAANTACNANGGTNNCNGCCGCCCGGGCAGGTACTTTTTTTTTTTNAC  
AGACGNNCTGGNTTTNAGAAGGANTTTATCCACTACCAGAAACCGAAAAATGTCTAGCA  
NATCCAAAAAGTGCAAAAAAGTGCATGACTCACTGGAGGACTTCCAAGAACAGCTCGTT  
AACC

Sequence 3646

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTCAATCAGCTT  
CATTGCTGCATTGCAAAGCCCCGCAATTGCAGTTGTTTTAGCAAGGGATAGATGGAGAAN  
ATGAATGCTGCTTTACAAGTCAATTACTACTGATCAGATCATCTTACCAAAGGGTGGAGGA  
AGTGGCCGAGGGCCCCAAAAGGTCCGCANAGCTGAGTGGTGGNCCATATCNAATGGGTGGT  
GGTACCTCN

Sequence 3647

CCGCGGTGGCGGCCGCCCGGGCAGGTACTCGAAGTGGAAGGACTTTCAATTTGAGAAGAT  
ACCATTTTGATCCAGCAGAAATGTCAAATGATATCAGGTCCTCAATCTTCAGCTACAGGG  
AATGAGTAACTTTGAGTGAGGAAGAAACAACATAGTGGGTATAATCATGGATCGCTTGT  
ACTCTCCAGCAGCAGCTGGAGGACAGCAAGGCCAGCAGCCCAAGTCCAGCATGCAGAGCGCTC  
TGGCAGCCATGACCACCGTGGGCTCCGGGACGCAGCTCAGGACTCCCCGCGTACCT

Sequence 3648

TGACGCGCGTAATACGACTCACTATTAGGGGCCGAAATTGGGGAAGCCTCCCACCCGCGG

Table 1

GTGGGGCCGGGCCCGCTTCTTAAGAAAACCTAAGGTTGGGGAATCCCCCGGGGGCCTT  
GGCAAGGGAAATTTCCGAATATTCAAAAGCCTTTAATCCGGAATACCCCGGTCCGAACCC  
NTCCGAAGGGGGGGGGGGGGCCCCCGGGTTACCCCAAAGCCTTTTTTGGTTTCCCCCTT  
TTAAGTNGGAAGGGGGGTTNAAATTTTGCCGCCCCGCTTTGGGCCGTTAAATTCAAAT  
GGGGTTCAATTAAGGCCTTGGTTTTTCCCTTGGTGGTTGAAAAAATTTTGGTTTAATT  
CCCGGCTTCAACNAAATTTTCCCAACCAACCAANCAATTTAACCCGNAAGCCCCCGG  
GGGAAAAGNCCAATTAAGGAGGTTGGTTAAAAAAGGCCCTTGGGGGGGGGGTGGC  
CCCCTTTAAAAATTGGGAAGGTTGGGAAGGNCCNTAAAAACCTTTCCAACCCAATTTT  
TTAAATTTTTTGGGCCCGGTTTGGGCCCGGCCCTTTCCAACCTTTGGGCCCCCCC  
CGGGCCNTTTTTTCCCCAAAAGGTTTTCCGGGGGGGGGAAAAAAAACCCCNNTTGGG  
GTTTCCCGGTTTGGGCCCCCCCAAAGGCCCNNTTGGGCCCAAATTTTTTAAAAAATTTGGGA  
AAAAATTTCCCGGGGGGGCCCCCAAAAACCCGGGCCCGGNCCGGGGGGGGGGGAAAGG  
AANANGGGGNCCCCCGGGTTTTTTTTTGGGGCCCGGGTTAAATTTTTGGGGGGGGGCC  
CGGGGCCCTTTCCTTTTTTCCCCCGGGCCCTTTTTTCCCCTTTTCCGGGCCCTTTTC  
CAAACCNNTTGGGAAACCTTTTCCGGGCCT

Sequence 3649

CCGGGCAGGTACCTGTCTCTTCTCAAACCTAGATGATAAGTGGCCTCAGGGCAGGGACTAC  
ATACTCCTGAGAGCTGCTTGAGCTCGAGGTGTTTATTATCCTCAGTAAGCATTTTTTTC  
AGGAGCATGACTTGGCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAGTACCT

Sequence 3650

GTATGACCTCAGCATTCTTAAAGTGCTGGGATAAAGTGCTCACAGGGCAAGTGGAACCC  
TAGAGAGACAGCCATCCCTGACCTCTGGGCTCCACATCACCCGACTTGCTGCTCCACCAC  
TTTGCTTGCTTCTGGGTGCTCCATCCCAGAGACAAGTGAGTTAGCAATCACTTAGTGTA  
ATCAGCCCAGGATGGAGGGTCTGTGCTGTGGGCCCAAGCCAGGGTTCCTGTCTGGTGAT  
GAGTAGTGGAGGGTGTGTGGTACCT

Sequence 3651

CCGCGGTGGCGGCCGAGGTAAGTGGCCATGTGGAGCTAGTGGCCACCACACTTGACA  
CCACGGATGCAGAACTTTTCCATCACTGCAGAAAGCTCTGTTGAACAGTACTTTTTTTT  
TTTTTTTTTTTTTCCGCATTAAATCACTGNGGGTCTTAANCAATTCCTCAAAGCNAAC  
TTTGGTTTTTACTTTTGCTTCACTCTCAGCTGTAGGCATNTNCAGCTTTATGCANAGGA  
CTGANAATGCAAAGCATTGACTCAATCAGGATCCTTTTNTCAGACATAATTAAAAAGGCT  
TTGACAGGTTGAANATTAGCCCCAGGTTCCCGCGTACCTGCCCGGGCGGCCGCTCTANA  
ACTAGTGGGATCCCCC

Sequence 3652

NGGCGGCCCGCCCGGGCAGGTTCAAGCAGAGCCCNNTTNACCNGAGGNTTTATAACCNNGNC  
TCTTAGTTACCTGGGGNCAACTACAGTCTAAAAATANTACATGGAAAATTCAGAAANAA  
ACAGTTCATAGGNTTACAGACGNGCGCTGNTCTGAGAAGCATGATGGAATCCCGTATCCC  
CCGGGACATGAATCATTCTTTCATCAAGCGTATCCATGCGTATACACGACCTACCCATTA  
GTCACCTAGCAGTCACCCTCAGNTATCAGATGGAGTATTGCAGTCTCACAGCGCTTGTGN  
ACAAGTAACCCTTATTTGACTTAANAATGCTCCCAAAGTGCAAGACNAGCGCTGTCAAAT  
TGGATATGCCAAAAAG

Sequence 3653

CTTTTTANGGCGAATTGGAGCTTACCGCGGTGGCGGCCGCCCGGGCAGGTACGCNNGGCTT  
GCTGATCGACTTATTGGGGTGACAACAGATATGACTCTGGATGGAATCACCTCCCAGCT  
GAACTTTTCCACCTGGAGTCTTGGGAATACCGGACGTGATCTTCTTTATAGGTCCAAT  
GATGTGACCCAGTCTGTCAGTTCTGGGAGATCAACCACCATCCGCGTCAGGTGCAGTCCA  
CAGAAAATGTCCCTGGAAGTTTGCTGCTGCCAGGAACGTGCTCAGATGGGACCTGTGAT  
GGCTGCAACTTCCACTTCTGTGGGAAGAGCGCGGCTGCTTGGCCGCTCTGCTCAGTGGC  
TGACTACCATGCTATCGTCAGCAGCTGTGTGGCTTGGGGATCCAGAAGACTACTTAACGT

Table 1

GTGGCGAGAA

Sequence 3654

TATANGGCGAATTGGAGCTTCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTT  
TTTTTTTTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNAAAAAAAAAAATTTTTNNTTTNANTT  
TTTGCAAAAAANANANNGGGAANTTTNAANNAAANGNGGGGNANCCCCCCTTTANNN  
GGGNGGCCANGGCCNNAANNNNCNGGGGAAAAAANGGGGNNAAAAAANGGNNNNNGG  
TTTTTTNGGGNNNGGNCNTTTTTTGGGTTNNNTNCCGNANAAANNANNNNNNNNC  
CAANNGGGGGGGAGGTTAACCCNTTTAAAAA

Sequence 3655

CCGCGGTGGCGGCCGAGGTACTGGTTTTGAGTATCAGCAGGTGGCCTTTCAGCCCTCCAT  
ACTTACTGAGCCTCCCACTGAGGATCATCTTCTGCAGAATACTTTGTGGCCTGAAGTTCA  
AAACTATATGGGCACGGTTATGAAATATTTGTGTTACTTGTAAACAGTTCAAAGACTCT  
GCTTGCCTCAGCTTGTAAAGGCAGCTAAGAAAGAGCATGCAGCTATCATTCTTTGGAACAC  
TACATCTTGGAAACAGGTGCAGAAATTTAGTTTTCCACAGTTTGACAGTCACGCAGATGGC  
CTTCTCACCTAATGAGAAGTTCTTACTAGCTGTTTCCAGAGATCGAACCTGGTCATTGTG  
GAAAAAGCAGGATACAATCTCACCTGAGTTCGAGCCAGTTTTTAGTCTTTTGCCTTCAC  
C

Sequence 3656

AGGTACATAACCTTGAATGCCCTCAGTTGTTTCCCTGAAGGTGGCCAGGTGGTCATT  
ACATTTTCCCAAAGTAAAGTAAGCAGAAGGAAGATAACCACATATTTGGCAGGCAGGAC  
AAAGCATCGACTGAATGTGTCAAATTTACATTCATGCAATTGGAATTGGGAAGTGAAA  
AGAAGGATTGTAAATGTGGGAAGCTTCAAAAAAGGGCGCAAACCTCTGTGTTTATGCT  
TTCAAAGGAGAAACCATCAAGGATGCACTGTGCAAGGATGGCAGATTTCTTCCCTTCTG  
GAGAATGATGATTGGAACCTCATTGAAAACAATGACACCATTTTAGAAAGCACCCAGCCA  
GTTGATGAATTAGAAGGCAGATACTTTCAGGTTGAG

Sequence 3657

TATNNGGCNTTTTTNAGCTCCCCGCGGTGGCGGCCGCCACGCTGGTTTTGCATCTTNNGG  
AGACGCTCGTTNCCNTCGCGCTTCTCCTCGGCCAATTCGCGGAAGAAGTGGCTCACGCCT  
TCCAGAGCCACATCATCGCGGTGAAATAGAAGCCAGAGAGAGGTAGGTGTAGGAGGCC  
TGCAGGTACCACTACATCATTGCAAATCTGGGATTTACTGATGGAGACCTATTAATAATC  
CAGTTTGGAGGTGCAAATGTCTCTGGATTTAGATAGTGGACTATGATGATTGCTTGGTA  
TCTAAATTTATAGAAAGATGGTCAACACTGGAAGAAAAAGAATACCCTGGAGCTCACACA  
ACAACAATTAAGTATACTTCTGCTCTGACCTATGATGCC

Sequence 3658

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGCTCTCTTCCAC  
AAGCACAACCTTCTTTCAGACGTCCATATACACTTCTCCAAAATCCTGTGCTTAACACA  
TTGTTACTGAGCACACAGGCGTGCTGGGGCAAGCGACGCCTGGGAATATGAAGCGAACGC  
CACACACTAGAACGCGCCCTGGGAGCTGGCCTCCGGTGGGGGACGCAGGTGTTGAAGACA  
TAACCGCATGACCGAGAAACCTCAGTTTTGCTCTGAAGGCCTTCAACTGCC

Sequence 3659

CCGCGGTGGCGGCCGAGGTACTTTNTTTTTTTTTTTTTTTTTTTTTTTTAAATAGTGAA  
TAANACTTTTATGTTAATTTTTCGGTTATTTTATTTTGAAAAATATTTCCCAAAGAGG  
TAAGGAATATGATGTAGGCATAGGGGTATCCAAGGGANANAATACAGTCNTCGAGCGGCC  
GCCCGGGCAGGTACTTCTGTAATTGACAGCCTTGCCCTTGTTCTCATGGCATCATTCAA  
GGNCATCCCCTAAATTTAACACTTTCGATGCCATATACGTTGTAACCTTCCTTATAAGT  
TGCAAAATCTGTGAATTCTGCGAGGAANATGGGTAAATATTCTGNGCATCTTTGCCAC  
CTTCATTGTTTTCNCTCGGCC

Sequence 3660

Table 1

CCGCGGTGGCGGCCGAGGTACTTATAGGTAAGAGCCAGCTGTAGCTCATGTGGCTGGGTA  
TATTCTTGATACTCCTTTATTACCAAAGGATTCTTGTTCCTCAGGAAATGGCTGACCT  
ATGTAAATTACAGTGGTCTGAACTCCCTGCTAGGCACTGGAGGGGTGGGGACCATAATGG  
GTGGGGCTGGACCTAGCATGCCACCTACAGGTCCCGCAATGGCAGGTACACTTGAAGC  
CAAATTTCTAAACTTGTTTTCTTAAAAATAGTTGTTGTAACTAAACCATAACCTA  
ATCAGTGTGTTCACTATGCTTCCACACTAGCCAGTCTTCTCACACTTCTTCTGGTTTCAA  
GTCTCAAGGCCTGACAGACAGAAAGGGCTTGGGGATTTTTTTTTCTTT

Sequence 3661

NCCNGGCAGGTNCCCCCNAANAAATTACAGTGTTTTCTTAATGAACCTTGCAAAGGAATAT  
TGCTAAAAACAAACAAAAAACTGTTATCGAACTTTCTTTGTTGCTGCTAGTNTAAAA  
CCNTNNTNTCAACTNTTATCTACCTTCTTCTTGTCTGTTCTCAAGNGTTATTGCCATACC  
ATATANATTTTCTAGCCAAATNTNNNNATCTCTNTAAANAAGAAATAACCTCGTTTNTGA  
GNATATTTTAANCANGTAATGTCTNTTTCNTCCACCAACCCCTTAANTTTCTTTTCTT  
NAATTACAANNAATTGCAAGANGTTTATGCTTTGTGNTTNNAATACCCCTTCCAAGCAAAT  
TAATAATCCAAAACAACNTTTTCCCTTCTNTTCCCTTAAATANCNTGGNGNCTTTACCTT  
NGGCCTTTTCCCTTAAAGANGGAANCCANANGTCTTAATTCNCTTCCGCNATGGCCACCA  
CNTTCNTTTNNTTANTCATGTTGCTCNTTCCCNCCACCAATTTCTTTTTTCCNGGTCGA  
ACCGGGCCAAGNTTTNNTTAAATANGGAAATTGGGGGA

Sequence 3662

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGGTAGCTTCTGATAATGATGATGA  
GAAACAGAATTCTGATGATGAAGAACAACCACAGCTGTCTGATGAAGAGAAAATGCAAAA  
TTCTGATGATGAGAGGCCACAGGCCTCANATGAAGAACACAGGCATTANATGATGAAGA  
GGAACAGGATCATAAATCAGAACTCTGCAAGAGGCAGTGATAGTGAAGATGAAGTTTTACG  
AATGAAACGCAAGAATGCGATTGCATCTTGATTGAGAAGCGGATNGTTGACACTGAGGTG  
CCAAAAGATAATAGTGGGAACCATGGGATTTATTT

Sequence 3663

ATTCGAGCGGCCGCCCGGGCAGGTACTAGACGGGGCTGTAATCCGGTAACTGTATGTATT  
TTAGTTCTCCAGTCCCTGGGAAGGAGACAGGAGAAGGTGGGAGGGAGGAAGGGGCCAGCT  
GAAATGGAAACAGATCCCTGATCCGGGGCGGCCAGTGGAACCCCTTCTTGGTGTGCGAGAG  
CCTGTGCATTTAGAGGCAGCAAAAAAGTAAAAAAAAAAAAAAAAAATTGATCTTTGTTT  
AGATTAACAGACCCCTGACTATGAAGAAGGAAGGCATCCAGACCAGAAACCGAAAAATGT  
NTAGCAAATCCAAAAAGTGCAAAAAAGTGCAATGACTCACTGGAGGGACTTNCCCAANAAC  
AGCTCGTTTAACCCGGCCC

Sequence 3664

CCGCGGTGGCGGCCGCCCGGGCAGGTACACAGTCCAATGATGCTAAAAAGCAAGCACAT  
ATGTAAGTCTGCAAAATAACCAGCTGACAGCATGACGACAGGATAAATCCACACATACC  
ATTACTAACCTTAAATGTAAATGGGCTAAATGCTCCCATTTGAAAGACACGGGGCANGCTG  
GGTAAAGAACCAANACCCACTGGAGTATGCCCGTCTTNAAGCAACCCATCTTATTGTGC  
AGTGCCAAATACATAGGGCTCAAAAANTAAAGGGANTTGGGAGAAAAAATATTTTCAAGC  
CNAATGGGAAAAAA

Sequence 3665

CCGCGGTGGCGGCCGCCCGGGCAGGTACATTAGTAATTATAACAATGCATTAAAAATTTTC  
ATTTTCATGTCTAGAGAATCAGTTTTCTTCATGATACATTATGTTTTACTGAGTGAGTTT  
GTCCCTCCAGAGACCTTTCTGGGAACATGCCTTCTCCAGGGACTGCTTCTAAGATGCC  
AGGTTGCTTACCACAGGTCTCTTTGGTCAATTTAAAGCAGTCAAGCTGTNTGGACTGCA  
CCCCTTTCAACTGGAAGTTGGAGCCAAATTCCTTTTTTTTTTAAACCCTAACCNCCNCC  
CNTTAATAAAAAAAAAAAGGGGGNCTTTNNGGGNTTGGGGGCCAAAANCCTTTTTTTTTT  
AAACNCCCTTTNNGGGGGGNGAAAATNNTTTNNGGGGGNAAAAAANTTTTTTTTTT

Sequence 3666



Table 1

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTNAAAGGNTTTTGTAAAACTAANACNCATNTTAGCCTAGGCCTAC  
ACCCGGTCAGGATCATTATATCACTGTCTTCTGCCTCCACACCTTGTCCTCACTGGAAGG  
TNTTCAGGGGNGTGATCGTTAATACTGAGTGTCAAACCTTGACTGGACTGAANAATGCANA  
GTNTTGTTCCTGGNGTGTCTGGGAGGGTGTGGCCAAAGGAAATTAACATTTTGANTCACT  
NGACTGGGAAAGGAAAACCCCCCTTNATTTTGGGGGGGCCNCCATTTTAATTAAGNTT  
TGCCCNCCCCCATTTTNNAAANANAAAACCCCGGAAGGGAAAAAAAATNGGG

Sequence 3667

CCGCGGTGGCGGCCCGCCGGGCAGGTACACAAGCCAGGTAAAGCATACCAAGCAAGCCCC  
CTCACACCTTTTGTCTGAAAAAGCTTGACTTCTTTGCAGCAATGTCTCGCCCATTCAG  
CAGCAGTATCTCAGTTAACTTGGTTCTTTTCTCCAGGCTCAAACAAAATCAAACCTCT  
TCCTGGGTGAGGGGCTGGATTGATAATCTCATGGACCACTTAGGGTTGCTCTTTTTCG  
TAAATGGGGTCATAATNGGGGAATTGGTTTTNTCAAACCTTNGGGTTTTGGGCCTTGG  
GGTAAAAGCCTTTTTTTTTTAANCNAAATNTTTAATGGAANTTCCCTTGNCNNATTGNC  
CNTTGGGCCTTTTTTTTGGNAANATTTGCNTTAATGGGGNAAAAAAAAAAAAAGGGCTT

Sequence 3668

CCGGGCAGGTACGCGGGATGGTGCAATGGTTTTCCAACAACAGCGCACTTCAAGGTTACC  
TTCATAATCTTTTTCTGCCAGAACCACAAAAACAATACTCTTGAGCTACTCAGTGTTCCA  
ATTGTTAAAAATTTCTGAAATTTTCTTCATGTATTCAAAGTGAAACATAAAGATCTAG  
AAGGATGGTTGTGAAAAGTATGGACTTTATAGTATCTAGTGGGCATTTTCATTGAGCCCA  
AATGATAAATCTGTTTTCCAAGTCTTTAAGTGAAAAAAAAAAAAAAAAAAAAATAAAAA  
NGTCCCTCGGCCGCTCTANAAC TAGTGGGATCCCCCGGCCTGCAGGGAATTCGATATCA  
AGCTTA

Sequence 3669

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTTTTTTTTTTTTTTTT  
TTAGAACTTCTTATTGGGAATAATTTCAAATTAACAGCANTTATGGGAACCAGCACAAA  
GAACATATGATTTCGTATGCAGATTGAGCTACTATTAACATACTGNCCATTTCTTTTTCAC  
TTATGCGCCGTGCTCCTGCTCATGCTCTCTCATGTATATATGTATGTATGCTTTTCC  
TGACCTGTTAGTAAGTTGTGCCATTAAAGCCTTCTTCGCTGTGACACTTTAGTGTGTTT  
CTTCGAAGAAAAAGGGCACTGTCTGCAGAACCACACACAATTATCAACTTCAACAAAT  
CTGTAATAACAATGCACTATTCAGATTCCATTTTGTAAATTGACCCAATCCTTAGTGTT  
TTTTCCCTACAATACAGGATCCAGTTTAGAATTATGTCCGCTCTANAAC TAGTGGGATCC  
CCC

Sequence 3670

TCACTATAGGGGCGAATTGGAGNTTCCACGCGGTGGCGGCCGCCCGGGCAGGTACGCAAG  
AAAGTTCAGAGATGAGACCTTTGGTTGTATTCNNCCTTTGGGACATGGGGGATGTCTTTA  
GTTCAAAGTCACAAATAAATGCAGGTTCTACAATTCAGAGGCTTCATATCCCTGCTGGAG  
TATTACATGTTTATTCAGGATGGACCACTTTCTTAGCAACAGTTTCTAAACCTTTGCCA  
GGTCTGGGAAGTCTGGCAGGAGAGATTCTAAGAACCAATCATTCTGCACACACTTCTT  
GAAGATAATATACATTATTCCTAGTTATCTCTTCTAGGTTTTTGTAGGCTCATTTCAA  
TATTACAACAATCTTTATTGGAAAACCCCAAGTATTTTGTCTTGAAAAATCAGCAATCCA  
GGTATTAATAATAGCATGGAATGCCCAATTTTACTTTGATAATTACATGGTAAGTCAAGT  
TTCCGCTCCTGGCTAAAAGCCTTGGATTTTCTTCTGGGGCAGGTCCTAAANGCACAGGGT  
GGCATGGAAAGAAAATCATTNATTTTCTCTCTNCCCTTAATTTGAATTGGGGGTCT

Sequence 3671

ATAGGGCGAATTTTAGCTCCACCGCCNTGGCAGCGGNCNCCCGGGCAGGTACAGGGCTTG  
AGAGCANAGCTGCCCATGTCTGCTTTCCCTCTGAACCCTGACAGCAAACCTTCTGAAGG  
AGCTTTTCACTCTATCAAGGTATGATAAACTTGAAAAGAGATGGCTGGATTGAGTGCGG  
NGCGGGGGTGGGTATCAGAGGTAGAGAAGTTCCAAGGTGGCCCCATAACTTCTCTATATC

Table 1

CTTGAAGAATCGTTTTTCATTTGCAGAATNAAA

Sequence 3672

CCGCGGNGGCGGCCGAGGGACTTTTTTTTTTTTTTTTTTTTGGCCTCCCAGATTCTC  
AGTCCTTTGGTGATCACTTAAGTGGACAATCAGAAATGAATGAAATCCACTTTTCCAAAC  
AAGACATACCAAGAGAAGCCCGAGCAGCTCACCTGGGTCATTGGCTAACACAGACCCCGC  
GTACCTGCCCG

Sequence 3673

AGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGGGAAAAGAAAAATAAACTATA  
GTTTTGNCATTAAGTTTACTAGTCCAAAATAATGTATANAATTGGTTACCAAGTTGGAA  
GAATCAGGAATATTTATGATAAAATCATGGCATTCTCAAAAANAACATTTTTAGNGCTT  
CCTAAAGTCTATAGCAAACATGATGTAATTTATAAACTTATACTAAAAACAACAAATAA  
AAGTTTTCTCAATTATTTAAGGNAAAAAATAAAACCTTGGACTGCTTCTCTTCAATTAGG  
GGANAC

Sequence 3674

[illegible]

Sequence 3675

AGGTACACAGCAGTGCTCACCGAGCGAAAGATGAGCAGGGAGGTGAGATTGACGTAGCGC  
ATCAGCGTCTCTTAAGCAGGCGCCCGTGCTCGTCGCTTCCGTGAACACTGCTAGAGATG  
AGGAACATTAGCCTGTCTGGCCAGGGCAAATTCACAACTGGTTCACCATCGGTTCACT  
ACCAGAGTAACATAAAACCCTATTTATTTGGTTTGAGTCTCCGACAGGAAAGAGAATCT  
TCAAATTTCTGGCTCCCCGAAAGAGGTGCCCTCAGGTTTCGGTGCTGCACGCCCCGGTGTC  
ACCTTTCGCTCGTGCACAGTCAGATTTTCTTTCTGNTCTCTGGCCACTGAGAGGACCCA  
GAAGTGTGACAAGGAACAGAAGGTTAAATGGT

Sequence 3676

AGGTACTTTTTTTTTTTTTTTTTTTTTTTATGGAGTCTTTAAGATTATCTCTATGTTG  
GCTGGCTGCGGNGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCCGAAGCGGGAGGCC  
AACACTGGGGCTACCCAAGAGTTGACCAAAGGTGGTATTAAATACNTATGCTTACTTATTA  
CCTTGTTGCGACAGTCTAGTGTAAGTCTTGAAAATCAAGTAAATTTGAAACATANTTG  
CACAAACTCTNTTATGAGTGNACACAGNTAATCCAGAATATTATTTCTAAGTTATTCATAA  
AAGGCCAACCAAGCGAAATATTNAATGTTACCCCTTGCCCCGGGGCCGGGNCCCGNTTC  
TTTNAAACTAAGTGGGGAATTCCC

Sequence 3677

ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACANTGCGGTAGTGA  
CGGGTTACAGTCCCGTGGGCAGCCTCTGCTTCTACTGTCTTGCCATCTGGACAAACCAGC  
ACGCTGGTCATCATGCCGAGAGAGCCATACCCTTGGGCCACAGAGTCCGACTGCACGTCA  
CCATCATAGTTTTTACAGGCCCAGATGAAGCCTCCCTCTGATTTTCATAGCTTGGGCCACC  
ATGTCGTCGATGAGCCTATGCTCATACCAGATCTTTTGAGCTTCAAACCTGGGACTTGTAC  
CTGCCCCGGGCGGCGCTCTAGAAGCTAGGTGGATCCCCCGGGCTGCAGGNnnnnnnnnnnnn  
nnnnnnnnnnnnTACCCGTCCAGCTCGAGGGGGGGCCCCGATACCCAGCTTTTTGTTC  
CTTTAGTGAAGGTTTAAATTGCG

Sequence 3678

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCCCCGCCGGGCAGGTACAATAAGCACACA  
CCCAGAAGAGCTGAAGGCTGAAGACAGAGACGATATGGCAAGAGGCAGTGGCCTGGAATG

Table 1

GGGACTGACCACCCTGCAGAAGTTCAGCCAGGTAGATGTGGGGCAGGGGAACGCTGATGG  
TGGTCTCAGGGGGAAAACTCAGGACCTGCACATAAGTGGATGACCGGAAACAACAATAAA  
CATTGTGAGATCTGGAAACCCTTTTCTCCAACCTGGCTGAAGTGGACCCGGGCTCCTGGGA  
AGTAGTTCCTAGTGAGGGAGGCAAGTGTGGGTTCTTCTATATATACATCCAGGTGAGGGG  
GGGAATTCACATTCAGCAGTCTCAAGAGCGACTGTTAGCTTCACACACCTTCTCATGGCC  
CCC

Sequence 3679

AGGTACGCGGGGACTGTTGCGACTGGCATCCGCATCCGGCAGATGTAGATGGAACCAAAG  
TCCAGAAGTTACGCGTCACCCTTGCTCTACAGCCAAACATGCAGGACTCTAGTAACCCGC  
GAAATGATGGGATAGCCGTTGCAAATCCTTAAAGAGTCTTAACGAAATCCTGGCTGACA  
TTGACTTCTCCACTGCAACCATCGAGTTCATTGTCTCCTAAACCTTGCCATGGAGGCCCTG  
TGGCACCTGAGCCAGCCATTATCATCACCAGCACTTCCATGAGCTACAAGCTGGACCCAC  
TGCAGTCTCCTGACACACTGAAATCAGAGCCTGCACACAGAGCAGCAGATGCTTCAATG  
TAAAGGTCATTTTCCAGGGTCTTGACA

Sequence 3680

AGGTACTTTTTTTTTTTTTTTTTTTTTGCAAATTTACACAGTTTTCTTAGGAATGCTC  
TTTCTTTTTTTTCTCTTTGGACTCTACATTCCTGTAGCTCCTATTCTTCAAGGGCACAG  
GGGCTTACTTAAACATAAAATTTTCAACTTAACTGGAAGGGTGCCCTGCTTGCAAATGG  
AAAACCTGCCACAGAGCAGACTTAACTGCAGCAAGCAGGTGACAGAGCAAGGAACAGGATC  
CAAAATTATGATTTTTTGNGTGCTACTGAAGTAAAGAATTTAAGAAGGTTTTACTCAGG  
GTCATAGGCTGGGTTGGAAGACTGGGAAAAAGGAAATCAGGAGTATCTATATCTA

Sequence 3681

CNGAANAATTTGGGGAAGGNCNTNCACTCCGGCCGGGGTGGGGGCCGGGGCACCGGAA  
GGGGTTAACCCCCCTGGGGCACCTTCAAATTAACCCCTGGGAAAAAGNCCAGGTTGGG  
TTTTCAAACNCCTTTNAAGNCCAAAAAANTCCTTNCNCAAAAACCNCAAGGNCGGGCN  
ATNGAAAACCNAAATTTTTTTCNTTAACCNATTCACAAAAACCCGGAAACCCCTGGGG  
TTTTTTTTNNAAAAAATTTNCCAAGGCCTTNNTTCAAAAAGGGGGCNCNCAAAAAATTTT  
TTTTTTTTCNTTAAAAAATTTTAAACCCCCAAAAAGGAAANACCTTTTTCAATTTCNN  
AGNTTTTCCACANGNNAAGAAAAAGGGGTTTTATNTCCCCAACCCNCCNNGGGGGG  
GGGGGGGTATTTTTTTTTTGGGGGGGGGGGAATTNTNCTNAAAAAANAANAANGNT  
TNTTTTTTTTTTAANAAAAAAGGGGGGNGGGGGGGGGNGTNTTTTTTTTTNGGGNGA  
ANAANCNTTTTTTTTTTNGGGGGGNNNCCGCCNNGNNTNANAAAAACNCCCCCNNT  
TTTTTTTTTTTTTTTTNTTGNNGNNAAAAAATTTTNCNCGNGGGTGGGGGGGGGGN  
GNAAAAAACCCCTCTTTTTTTTTTTTTGTGGGGGGGGTGGTTTTNTNNTAACANCC  
CNCCCCNTCNTGGNGGGGGGGGGGGGTTTTNTTCTTGNNGGGGNGGGNNNNCCNTTN  
NTCCGTNNGGGGGGGGGGGGNAAAAAAAAAAAAAAATTTNCCCCGNGGGGGG

Sequence 3682

NGCGAGGTACGCGGGTGTGCAGCCACAGTGAGCTTCTGAACATTTCTTCTCAGACTAAGC  
TCTTACACACAGTNGCAGTNGAAAGAAAGAAATTGCTTGNCATGGCCACAGGAGCANGCNG  
CTTCTGCANACATGACTGTCAACNCAAAACNTCATGTTNACTGGAGGGCNAGGACACAA  
TGTTTNTNCAACAGGAGTACCTCANGAGGCACAATACNANGTCACACTCAAATTGGTGG  
CTTTTTGCCNCAAAAAATATTACCCNCTTTAGGGTNANAGATTCTTCCCCCTTCCCTGN  
CCCAAAGTAAAGGAAANAAGGTGGGAAATAAGCAAGGCNNATTTGAAGTTACACTTC  
ACCCAATTGGGGAANAAACCTNTTGNAAAANGTNGCTAAGGGNGGGCAANAAANTTNGAA  
AAGGGGGGCTTTCAAACNCAAAATTTTAAATTTTTTGGGNTTGGCCAATTGGGGN  
GGCTTTTTTAAAGGTTATTTNTNCCCTTTGGGAAAAA

Sequence 3683

AGCAAAAGGCCAGGAACCCGTAAAAAGGCCCGCGTTGGCTGGCGTTTTTCCATAAGGCC  
TCCGCCCCCCTGACGAGCATTCAAAAAATCGAACCCTTCAAAGNTCAGGAAGGNTG

Table 1

## GNCGAA

## Sequence 3684

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAGATGG  
GGTTTCACCATGTTGGCCAGGCTGGTCTTGAACCTCTGACCTCAGATGATCCACCCGCCT  
CAGCCTCTCAAAGTGTGAGATTACAGGCTTGAGCCATTGCGCCAGCCCTACCTTTGTTT  
TCTTAAATAGTAGGAAAAATATGCCTTTATTTCTGTTATGATTTTTAGAGAGGTAGAAGA  
TAATAGATGCAAACTCTTTGGAANGGAAAGCTTGATCCCTTCGGCCGCTCTAAAACTAA  
GGTGGGATCCCCCNNGGCTTGNAAGGGAAATTNCAATATTCAAAGCCTTTATTCGAATA  
CCCGTTTCAACCCCTTTNAAGGGGGGGGGCCCCCGGGTACCCCAANCTTTTTTGGTTTCC  
C

## Sequence 3685

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTT  
TTTTTTTTTGAATCTTAAATGTGCTCTACTAAGTGAAAAACCCATATACATGATTCATGG  
GCTACATATCACATGATTCCATTATATGATACTTTGGAAAAATTAAACTATAGGAATG  
AACAGACTAGGGCCGGGGTGTCCAATCTTTGGCTTCCCTGGGCCACACTGGAANAANAA  
TTGTGCCTTGGGCCACACATAAAATATACTAACACTAACAAAGCTCTTGAGCAAAAAA  
GTCCATGTNTAAATCTCATAAGGTGTTAANAAAAGTTTACGAATTTGTGTTGGGCCACAT  
TCAAAGCCCATCCTGGGCCCGCATGCAGCCCCACGGGGCTGTGGGGNTTGGGACAAAGCC  
TTGGGAC

## Sequence 3686

CCGGGCAGGTACGCGGGGGGAGGCAGGTTGGAGCCGCTGCCGTGCCATGACCCGCGGTA  
ACCAGCGTGAGCCCGCCGNCAGAAGAATATGAAAAAGCGGANCGACTNNGTTAAGGGAA  
AGCCNCCCGAGATGACGGGGCATTTCTGGCTGCACGCNCCGCAAGTCAGAAGGGGACATN  
GNTATNATNCATTGTACGACCANAGCCAGNAAGNAGAGGCNAANACGGACCAAAAGGAA  
GGGAAGTGGAACACCAATNTACGNCNTTNTGGTGGGGCNTATGCGGTTGNTACCCAAA  
CCCCCTTTTCNTTGNCCCCCTTTNCGNTNCCTGGTTGGTTGGCCCTTGNGAAANNCCCAA  
GGNGCCCCCACCNCAAANGGCCCTTTCAGGNCGGTTTTTACCNTTTCCTTNGTTAAGN  
GTGGGCCCTTNCACCCAAGGGNNTTCTCNCCAANTCCGAGCCNCCGNAATTNNGGGNCCAA  
NTTTTNCCTCCCTTTT

## Sequence 3687

GGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGAAGAACGGCGGTAACAGTT  
ATTGGCAAAAAGCATGAAAAGAGAAAGCACTTTGAAATTTATTACTAGCTTGCTACCCAC  
GATGAAATCAACAACCTGTATCTGGTATCAGGCCGGGAGACAGATGAGGCGAGAGGAGGA  
GGAGGAGGAGGAGAAGGCTCTGGGCTCCTCTGCAAAAATAAAAAATAAAAAATAATAAA  
ATTTTAA/ATAATAAAAATTCATATATACACATATAAAGAAATAAAAAGAAGTCTCAG  
TTGCCA/AAAAAAAAAAGAAAAAAAAAGTACCT

## Sequence 3688

AGGTACGCGGTATTATGGAGATGCTCTGTTCCATCCAGGGAGGTGCAGGTGAAAAGAGG  
GCAGTTCATCCTCCTCACACTTAGGGCAGGGAGCAGCCATGCAGGGGCANGCATCAGNCA  
GTCTTTGCCATTGTTGGACAAAAATCCACCTTCTCNTNGCTTGCAANTATGGCTCTTAN  
TGCGGNAAATGTTTGCCATGAACCTTTAAANTNTTTCTTNTTNTGNTNAANANATTGG  
GGG

## Sequence 3689

AGTTGCAACAATTCATCTTTATTTCTTATTTTCTCTGGANATGCAAAATTTGGTATATT  
TNACCCAGGTATATTNGGGATAGTNGGCTCCTCCTGGGNNAGGATGGCTGGGCNCNTTT  
CNCCNGGGGGGGGNNTTTTTTTTTTTGGGGGGGGGGGGGGGGGGGNTTTTNAAAANN  
NNCCCNAAAAAANNCCCCNCTNNNTGGNNGCCNATAACCCNANNNGGGAACANNAAA  
AAANATNAAANTTTNNNAAAAAANACANNANAGTNCCCCCCCCCNCNCTANCNGNGGN  
AGNAGAAAAAAATAATCCCCCCCCCCCCNNAGNNAAAAAAGNGGTCTTTTT

Table 1

TCTTTNAAAAAAAAAATNGNGAAAANCCCCC

Sequence 3690

GAAACACTACTATAGGGCGAATTGGAGCTCNCGCGGTGGCGGCCGAGGTACTTTTTTTT  
TTTTTTTTTTGANTCCAANTCCCCANGANGGCTTTATTTTTNTTTTCAACANNCTGNT  
CTGCGGNTTCCTTGGCTNTTTTTGCCCNTATNCCCAAAACNNGGCTTGGCACNGGCCA  
TACNGAAANTAACNAANGNTTGAANTCTTNTNTTCTTNAANGANGANTNNAGCTTTNT  
NCTNTTANAAANNTTCCNAGCNGGCATNANCNGNCCNGGCANCTGGGNGGCCANTTCA  
ATTNTTNCNNGTACCTNCCCGGGCGGTNTAAACTANTGGGAACCCCGGGCT  
GCAANGAATTCGGAATTCAGCCTTAATCGGACNACCTGCTNACCTTNNAAAGGGGGG

Sequence 3691

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTT  
TTTTTCTCCACCANAAACACGTGCACTTTATTGAATGCCATTGTANAAAAGTGCGTGAA  
GATAAAGGGCTGATACAGGACTGGGCTCCGGGGGCAGGGCGAGGTGGAGTATGTGGGATT  
CAGGTCATGGGCANAGCTCCTGGCCTGGATGATGCCTCCTGATCTATCGATAGGCTTGGA  
AGATCAACACCCGGATGATGATGANCANAATGGTCAATGAGGATGCCACAATCAGGGCTC  
AAATCCCGCGTACCTGCCGGGCGCCCGCTCAAACAGTAGTGGGATCCCCGGGCTTGC  
AGGAATTTCGATNTCAAGCTTATCCGATACCGTTCCAACCTTTNAGGGGGGGGGGCC

Sequence 3692

ACTATAGGGCGCAATTGGAGCTCNC CGCGGTGGCGGCCGCCCGGGCAGGTACCCGGGCGTG  
TGAGGTGTCAGTCTGCCCTACTTGGGGGTGCCTCC CAGTTAGGCTACTCGAGGGTCTGG  
GACCCACTTGAGGAGGCAGTCTGTCCGTTCTCAGATCTCCAGCTGCGTGCTGGGTGCTGG  
GAGAACCCTACTCTCCCCGCGTACCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTCTGTGTGGAAATTGTTATCCGCTCAACAAATTTCCACAC

Sequence 3693

TGAGGTTTCTCACACTCATGAAATGAAAATTATCTCTTACATGAAAATTGCATGTTGAA  
AAAGGAAATTGCCATGCTAAACTGGAAATAGCCACACTGAAACACCAATACCAGGAAAA  
GGAAAAATAAATACTTTGAGGACATTAAGATTTTAAAAAGAAAAGATGCTGAACTTCAGAT  
GACCCATAAACTGAAAGAGGAATCATTAACATAAAAGGGCATCTCAATATAGTGGGCAGCT  
TAAAGTTCTGATAGCTGAGAACACAATGCTCACTTCTAAATTGAAGGAAAAACAAGACAA  
AGAAATACATAGGAGGCAGAAATTGAATCACACCATCCTAGACTGGCTTCTGCTGTACAAGA  
CCATGACTCAAAATTGACATCAAGAAAAAGTCAAGAACCTNCTTCCACATTGCANGAGA  
TGCCCTGTTTGCAAAGA

Sequence 3694

CGACTNCTATAGGGCGAATTGGAGCTC.CCCGCGGTGGCGGCCGAGGTACTATGTTGCGAT  
CTGTGAATAGTCACTGCACTCTAGCCTGGACAATATAGTGAGAACCCATCTCAAAAAAAA  
AAAAAAAAAAAAAAAAAGGCAAAGTTCTAGATCCTAACTGGAAGAGTTAGGCCAAGAAGGAA  
GAAGAGGTTCTGGGAGCTGCTGGCTACTTCCTNATCCTCCTACTATCGAGATACCCGCGT  
ACCTGCGCTG

Sequence 3695

NGGCGGCCGGCGGGCAGGTACGCGGGAGCCCCCTCATGGGAGCCGGACTCCCTGANACTC  
 AAGAAAATGCACCCNTCCTGCGTTCTCCTGCCTGGGGTGACCCATAAGGAACACCCCCN  
 CTTTCTCAACAACCACAGAATATAATGCCAAGGGGACCACCAACATGGGCATGGGGGCC  
 TGTTATGCCCATTTTTAAGGGAAAACACANGTAAATTTGGCTCCAGNAACTGAGCTGGGG  
 GCAGCTGCTCTTCTGTCCATGACTTTTGAGGCGGGATCTCGAGCGTCTGTCTNACNGGC  
 CTTCTGTCTGTTCTCCTCGCANGTTTCATACATTTGAATCCAGGATTGCACCCCTGAGG  
 GCCCNCAAGGGCTNACGGGGAAGCCCTCGGGAAGCCCCGGTGGGAAGTCAAACCTC

Sequence 3696

Table 1

NTCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGAGCATATAAAATGCAGTTCTGA  
TCCTGTCACCTCTCTGCTTAAACTCTTCANAGGTTACCATCGCTTCCAGAAAAAGATC  
AATACTCCTGACGTGGCAACCTGTCGAGACTCAGGACCGCTAGGAAATCANCTCTTGT  
ACCCCTCTATCCATTACACTACGATCCAGCTGGGTTTAAGGCATCACTTTCCTCTGAGCA  
ATCCTCCCTGATGTCATGAGGCANTTGCTGAGTGCCTTCTCTGGACCCTCTGTTACTTG  
CCTGTTAAATCCTGAACATCTGGAAGGGAGTCGTGTTCAANCAACATATCTACGCCTG  
CAGCACGGTGCCTGGCCTGCAGCTGGTGT

Sequence 3697

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACGAGTGGGATGGTCAG  
GACCTGGGCCATTGCAACCAAAATGGGGACTTCTGGGTAGGGAGGTCACTCCCTCTACT  
CACTGAGCTAGGATTAGGGAGGGTTATTGCCCCAACCATGCAANGGGAGGTGGAGGGAC  
AGGCTCAGCCTTCTCATTGTCTAAATGAGGCCTAAATGTGTNAAGTGCNATTNCTNCTT  
TGTGTNCCTGCCCCGGCGGCCGGCTCTAGAACTAGATG

Sequence 3698

CCGCGGTGGCGGCCGAGGTACGCGGGATTATAAACATCCTGCAGGAAATGANTCTATA  
TGTCAGAATACACATTTCCACCTTGCCCAACAGTAGAAAAACATAAGAAGAGAAAAACA  
TTAAAAATGACAAGGAAGTTAATGGAAGCAATGCGATGGTGTGGAGGTGGAGCCTTC  
ANAAAGGAAATTAATGCCCTTGTAAGAAGAGGCCAGAGAGCTTGCGCACCTTCTCCTGC  
CATGTGAGGAGCCAAGAAGCCGGCTGTCTGCAACCTGCAAGAGGACCTCACTAGAAGCT  
AGCCATACTGGCATCCTCATCTTGCTTTCCAACTTCCAGAACTGTGAGAAGTATATGTT  
TGTGGTTAAGTCAATGGTCTATGGTAAATTTTTTTTATTAGCAGTCCCAGCCAAAGACA  
GTGCCTCATTTACCTACCATAACCATTTATATTATTATA

Sequence 3699

ACTATAGGGCGAATTGGATTTCCCCGCGGTGGCGGCCGAGGTACCCTCTTCCCTTCCCA  
CCCCCAATTAAGGCAAACAATNTCACTTTGCTCTTGCTTAACCTAGATTGTGCTTCAA  
AACTATTAAATGTAAAAGACTTAACAAAAACAAAAAGACGTTTAACAGATGTCAA  
AAGCTCCTTAGTGTGTTGAAAATTAATGCTTTAAACAAAAGACAACATATTTATATNAAA  
CANGTTTGAAGAGCCCTNAATTGCAGCATTCTGTAAACATAAACAAAAAAGCTGG

Sequence 3700

GCGGTGGCNGCCGCCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTTTNACTGGNGGA  
AATGACACAACTGACAAGTATTTATTAGCCTNATTCCTNACTCACCCTGCCACCC  
AAAAAGTGTCACCTGAGTATTTATTGCATGCANCCCCAACACTAAAGAAAGATCAGAAA  
TTTTTNTTCCCGTGGGTGGAAATAAAGGGCTNTTTGCCACGTNTCCAGGCTTTCTTT  
GGAAAGCATTTTGGGAATCATTCCANA

Sequence 3701

CTCGCCCGGGCAGGTACTTTTTTTTTTAATTTTTTTTTTTTTTTGGTATTTTTAGTAGAG  
ACAGTTTTGCTATGTTGGCTATGTTGGCCTATGTTGACCAGGCTGTTCTAAACTCCTGA  
CCTCAGGTGATCTGCCACCTCAGCCTCCACAGTGCTGGGGGACTTGCANCTTGTGNAG  
CCACCCGCGCCTTGNNCCAGACTTTTTTTTTTATGNAAGAGGAAAAACCANNATTTAC  
TTATGNGANTTACCAATGTTTAACTAAGNAAGTGTGTTAGTAGTCAATAAAGTTCT  
TGGAAGNNGGAGATTGCGGCATAACCCANTTATTGGGACCATTGTTGNGACCACNCTNG  
GGAAAGAGNGACNTTTTTTANCGCCATGGAGTTTTTACCATNAANAGTTCCTGAANAAG  
NCNCCNNTTAAANACNAANGCCACCATT

Sequence 3702

CCGCGGTGGCGGCCGAGGTACTTAAGTAGGGTTAGCCGAGGTCAGGAGGGTGGATGCCTT  
ATTATGGGATTAGTGCCCTTCTAAGAGGGACAGTAGAGGGCTTGTTGCTCTCTCTCT  
CCATGCACAAGAAAGAGCACACAGTGAGAAGGAAAGAGGCCCTCACCAGAACCTGACCAT  
GCTGGCACCGTGATTGCAGACTTCCAGCCTCCAGGATTGTGAGAAGATAAATATCTGTGG  
TTAAGTCACCAAGTCTGTGGTGTGTTTTATGGCAGCACAAAGGTAACCCAGATGATGCTT

Table 1

CTCACCCTGGGTGGTCCAGCCTTTCATGGAAGCTGTCAGCTCCTCAGCCTTGCAAAAAA  
TGCTTGCTGGTCACTCTCTTGGTCCTCTCAGACGCCTTCTTAGTGGTGCCTCTACCAG  
GCCCTTGACTTCATCCTTTC

Sequence 3703

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTCAGCACAGCAC  
AAGCCACGCTACAAAAACGTGGCCAGACTCTTGTTCAGTCAGTCCCTGACCACATTTCT  
AGTCAGTGGGTGAAGTCTTCAACCAGGGTCTCTGGCTACCTTGACTGCTGTTGTCTGGC  
TGACAGAGGTCTCAGGCTTCCCTGAGTCAGGGCTGCCAGGGGGAGGACCAGATTGTCATC  
TTTGCTTTTTGGGCGACCCAGCCATTTAGCCTTAGGGCTTCAGAGTGTCTGAGGTGACC  
AGGGGCTGAAGTGAACCCCCAGCACAGCACAGCTGCTCTATAAAAAACGTGGCCAGACTTT  
TTTTTAAAGCAAGTCCCTGTGCTTGTTCCTCTGACTAGGTAAGACTCCTCAACTTGCC  
TCCAGCCACATCTTATAGGTGTGTTGAGATTGGCAACAGGTTCTG

Sequence 3704

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACNCGGGGGTAGT  
AAGCCATGGCGGCCATGAGTTTNTTGGCGGGGTTTCGGTACTGCGGTGGCAGNTCTGN  
CTGGCCGCCCCCTTGGCACTCGCCTCGGATTTGGGGGCTTCTCACTCGTGGCTTTCCGA  
ANGCTGCTTGCTNCTGTTGACACAANTTGGANACCATGGGAAAAAGACTATTTGTCATC  
ANACCTTCTAGATTCTATGACAGGCGTTTTTGAAGTTATTTGGGATTCTACATTGCATT  
NACTGGGGATTTCCAGTANCAATCTTTCATACTCCNGGTGAATGTATTTTCATTGGTCA  
AGGNTGGAACTAGCAGAAGATTTCCAGGAAAGGCTATGTCCANAAACACCTGGGGAA  
TATTTATAAGGCATCCCATNTTCAANCATGGGATTTGCC

Sequence 3705

CCCCGCGGTGGCGGCCGTGGCGGACCCCGCTACTTTTTTTTTTTTTTTTTTTTTTAA  
ANTGTTTTCTGGGTGAANTTTATTCTGTTTCACATCTAGGTTGTTGGGGAGAGTGATAG  
ACAAANTTCTGG

Sequence 3706

CCGCGGTGGCGCCGCCCGGGCAGGTACGCGGGGACACCCTGATCTTCACTGCAGAATGTA  
AAGGTTTCAACGTCTTGCTTTAATAATCACTTGCTCTCAAAAAAAAAAAAAAAAAAAAA  
AAAAAAGTACCT

Sequence 3707

AGGTACTGGGCTGTGGCACAGCCTTCANAGACAACACNGGTGTATCTCTGATCCTGCCCT  
ACCTAGGCTTNAAGGGGCTTCTGTCTGGAGAAATGCCCNTCAAAGGGTNACCAGTAGGTG  
TTGGCATTGAANTGGCCAGTTNTTAGCATNTACAAGCCCATCACCCNAGNATTNAATTTT  
TGGCCCTGNCCNTTNNGGGCCCCCNNTANANGGTTTATTAGAACTNGNTTATTTCAA  
TCCAATNNGTAGGNCCCCNTTCC:CNACGCTTGGGGTNTGTNNCTTTAAGGGAAATAAGN  
CCCCCANCCNNNGGNNNANTG:GTAAAGGGGGGTATGNCCCCCTTTNTTTCTAANTGGGN  
NGGCNATCNTTTGGGGAANAATINCTTTTTNNTGNNTGTCCCCNAANTNGCGNNGGTCC  
NTTTTT

Sequence 3708

CATTACAAAACAAGTTATGTAGCTAGATATTGGGTGAATCTTTTGATATTTTAAGAAAC  
TATCCACNGATCAGAGAGTGTATAGACGTTATTAAACATAGTTGATGANTTATCTGGG  
NAGATCAGTCTTTTNCCAAAC:TCAAAATTCAAATCTGNTGGANTAATGTGGAAAATTT  
ANTTTTATCTAANCCAATGTGCTTACACACAAAACCTTACTGNTGTCTTCAGGGCCTGAG  
TTTTTAAAGNNGNCAAGCTTTGCAATGGTTTTGNTNATTGATTNNGNGAAAATNTTATT  
ANNTAAATTTTCTTAACCTTNCAGTTTTTTTCCCNNTTNAATTNNCNTTTAAATTTCC  
TTTNCANAAAAAACCCCCCTTATTTNNGGTAAAAAANTTTCCCCCAATTTNACTTAA  
NNGGGGNCNNGGTTNCCCTAAATNAAAAAATGGGGTTTTTTTT

Sequence 3709

CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGTGGCTGCATGCCAGCCAGACACCCA

GTCTTGCAAGACTGTCATTGAAATCTCCGTTTTGCTGTTCTCCGGGTCTCTGCGTCCAG  
TCTTTGTGTTTGGACGGACCTGCCGGGCCATCTTTCTGCAAGAAGATAAAGGAAGACCAG  
GAGTGCCCTGCCGAACCTCTATGGAGGAAGTCTAGGAGAGGAAGGGGACAGGGAGGAAGAT  
GGTGTCTGCAAACCAGGAAGCAGCCTTGCCAGACACAGGATTGGCCACAACTTGACCCC  
AGACTCCAGCCTCCAGAACTCTCCTACTGCACTGAGAAGCAGTGTCTCCATTTCCT  
GGGGGAGACCATTGTATTGGGCAGTTTGAACAAACACCATGGACTGGGAGGCTTACAC  
AACAGAAATT

TATCGACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGGGCTGTG  
GCACAGCCTTCGAGACAACACGGGTGTATCTCTGATCCTGCCCTACCTAGGCTTCAAGGG  
GCTTCTGTCTGGAGAAATGCCCTCAAAGGGTAACCAGTAGGTGTGGCATTGAATTGGCCA  
GTGTTAGCATCTACAGCCATCACCGAGATGAAGTTTTCCCTTGCCC GAAGGGCCCCCTAA  
GGTTATAGACGGTATCAGCAGGGAGGCCGTCCCGCTGGTTTTCTAGGAGAGCCCCACAGGA  
GGAAGGGAGCCCTCTTCAGGGGCACTGGAATCTTTTGTGCCAGGGGCTCTTTTTCATCAN A  
GCCGGGGAGTACCTGCCCCnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn n  
nnnnnnnnnnTCAAGCTTATCGATA CCCGTCGACCTTCGAGGGGGGGGGCCCCCGGTACCCC  
ANCTTTT

CGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGGGTAAACAG  
GAGGATCCTTGCTCTACGGAGCTTACATTCTAGCAGGAGGACAATATTAATGTTTATAG  
GAAAATGATGAGTTTATGACAAAGGAAGTAGATAGTGTTTTACAAGAGCATAGAGTAGGG  
AAGCTAATCCAGCACAGGGAGGTCACAGAGACCATCCCTAAGGAAGTGGAGTTTAACTG  
AGAGAAGCAAGTGCTTAAACTGAAGGATGTGTTGAAGAAGAAGGGAGAGTGAAGACAATT  
GGGCAGAGGGAACTTTATAGACCTAAGGTGGGAAGGTTCAAAGAAGTGAAGAGAGCTA  
GAACAGCTGGAGCCGTTCTCCGGTGTAAGAGGAGGTCAAAGAGATAAGATTAAAGGATG  
TGAAGATTAAAGATCTTGGCGGCATTGAGGGATTGGGCACTTCTTACAAGAAAATCA

CCGCGGTGGCGGCCGAGGTACGCGGGATCCTCGGAAGAGCGCTCCCAGGAGAAACAAGCT  
TGACCACTATGCTATCATCAAGTTTCCGCTGACCACTGAGTCTGCCATGAAGAAGATAGA  
AGACAACAACACACTTGTGTTCAATTGTGGATGTTAAAAAGCCAACAAAGCACCANGATTAA  
ACAGGCTTGTGAAGAAAGCTTGATTGACATTGATTGTNACCNAAAGTCNACACCCTTGA  
TTTCCGGCCTTGAATGGGGGAGAAAGAAAGGCATTAATGGTTTCCNANCTGGGCTTCCTG  
GANTTANCCGATGNCCTTTTGGGATGTTTNCCEAACCAAAATTTGGGATCAATNCT  
TAAAAACCTGGGAGTTCCANGCTTGNCCTTAAATTTTCGTGGAAATTATTACTAATTA  
TTAATTATTAAT

CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAACACATC  
CAAGCTTAAGACGGTGAGGTCAGCTTCACATTCTCAGGAAGTCTCCTTCTTTGGCCAGGA  
TTGCTACTCTGCAGTCACTGGGAGCAACTGGAAGTCTCCGGATTGACCAAGTTCATCCTGG  
GCTCCATTGGGTCTGCCATTGCGGCTGTCAATGCGAGGTTCTACTAGCTCCCTGCCCTC  
GCCCTGCAGAGAAGAGAACCATGCCAGGGGAGAAGCGACCCAGCTCATCTGACCCAGCGA  
GGAGCCAACTATCCCAAATATACCTGGGGTGAATATACCAAATCTGCATCTCCAGAGG  
AAAATAGAAATAAAGATGAATTGTTGCAACTCTTAGAAAAA

ACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCCTTACTCAGGT  
TCTCCATATATTTCTGTAGTGCTTTATGCTTCCAGAGCATCTTGGTGTCTTGATGGCAAT  
ATCTCCTGGACCAATTTACTTAAACAGATGAAGAAATGCAATTCCTGTTTGTCTAAAA  
CTTGCAGCCTTGATCAAGATGTATCTGTCTAAATTGATGAGAATTGGAGCTGGATGTGAC  
ACTGGAGGTAACCAATTAAGAGATGGATGTCTAAAAAGCCAAACACACAGGTGACGATTCA



Table 1

TCTCAGCATCTGAAATACAATAAACACAGTCTTTAAAAAAAATCAGCTCTAAAGATACA  
TGCATAATAAACCTGGAAGGAACATCAAGAAATCTTGTTCATCTACTGCCTCAGCCAGC  
TCCACAGTCTTAAATTCAACTGCCGGCTGGCAGCAGTGGCTCACGCCAG  
Sequence 3715  
ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCACGCTGGTTTTGCATCTTCAGGA  
GACGCTCGTAGCCCTNGCGCTTCTCCTCGGCCAATTCGCGGAAGAAGTGGCTCACGCCCT  
CCAGAGCCACATCATCGCGGTGCAAAATAGAAGCCAGAGAGAGGTAGGTGTAGGAGGCCT  
GCAGGTACCACTACATCATTGCAATCTGGGATTTACTGATGGAGACCTATTAATAATCC  
AGTTTGGAGGTGCAATGTCTCTGGATTTAGATAGTGGACTATGATGATTGTTGGTAT  
CTAAATTTATAGAAAGATGGTCAACACTGGAAGAAAAAGAATACCCTGGAGCTCACACAA  
CAACAATTAAGTATACTTCTGCTCTGACCTATGATGCCGTTCAAGTGATGACTGAAGCCT  
TCCGCACCTAAGGAAGCAAAGAATTGAAATCTCCCAAGGGGA  
Sequence 3716  
GCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGCTCTTGATGCATAAAAAACAGCTGGGCTC  
CCTTGGAGACAGAGCGCCATGGGAAACCGGGTCTGCTGCGGAGGAAGCTGGAGCTGCCCA  
TCAACTTTCCAGAAGAAAAAGAAAAACAGGAAGCCAAACAAGACGGACACTGAAGCCGCAG  
CCACAACAGCTGCAGCAGAATCTCCCAAGGGCCATGAAACAACAGGACATACGTATGAA  
CGGGTGTTACAGCAGCAAGGGTCTCAAGAGAGGAGTCCAGGCCTCATGTGGAAGACAGC  
AACTTACATTATGCTGACATTCAAGTGTGACGCCGTCCTCATGCCCGGAAGTGAAACAC  
GTGCATTTAGAAAACGCTACAGAGTATGCGACCCTTCGCTTCCCCAGGCCACACCTCGC  
TATGACAGCAAGAACGGGACCCTGGTGTGAGCGCTTG  
Sequence 3717  
AGGTACGCNGGGAAGCGTTTACTTTGAAAAATTANNTTGTTCAAAGCAGGCCCGAGCCG  
CCTGGATACCGCAGCTAGGAAAGCGAATGATAAGGGAAAAGTTCTCAGGGAATTGAAGTG  
TTGTTGCTATGGTGACGTCTTTTGTGTGAATAAAGGTGCTCTTTCAGCATAAAAAAA  
AAAAAAAAAAAAAAAAANGTACCTGCCCG  
Sequence 3718  
CCGGGCAGGTACCTCTTTGATGAATGAGCCTGGCAGACCCGAATCGCATTAAAGTGAAA  
GCCATAGCCATTTTACCTTTAGCCAGCCTGCAGAGTTTAGGCTTATGATCTACTTCCTC  
TGTAATCTGCTGGTGGACTTGAGACTTCCAACNTNACTTGAGGAANTGGGAGCTNNGGGC  
NCTCCTTGACATGAGCCATTGGGGCAGNNCTTGACTTTGATAGTNGAANAATGGAGAAA  
AATGAGCCAGTCTGTACCT  
Sequence 3719  
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTT  
TTTTTTTTTTGGTTTTTTGNTTTTTGGGGTTTTTTGGCAGCCACAGGAGTTTTAG  
CCAATTCAGATGCCTTGCTCCCCACAATTTGGAACATTCTTTTGGATTTGACCAAGTCAG  
GAAGAGATGGGAGAGAAGTGAAACAGCAACAATAAACCCCAACATAAACAAAAAGAGTT  
AAGCAAAACAAACAAATGCGCAATTCATGTGATTACTGAGTGTTCTAATGGTAAGGAGAA  
ATTAAGAGCAGCTGGTGGGGTCATCTTAAATTTAGTCCATTTAAGGAAAAATTTTA  
AANAACAACTCTAATTTAGCTACTTACCCTGGGAAAATAAAGGGCTTCAAGGGCCTGG  
GTGAATTTGTTTCTTNTGGCCANTCCTTTAANATGGCTTGGGA/AAAAA  
Sequence 3720  
TCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATGACTGA  
TATTACACCTCAAGGTGTGGCTATGAGAGCTGGAGTTCTGGCTGATGATCACTTGATTGA  
AGTGAATGGAGAGAATGTAGAGGATGCCAGCCATGAGGAAGTGGTTGAAAAGGTGAAGAA  
GTCAGGAAGCCGTGTCATGTTCTGCTGGTGGACAAAGAACTGACAAGCGTCATGTTGA  
GCAGAAGATACAATTCAAAAGGATAAACAGCCAGTTTGAAGTGTACCCACAGCCCC  
GAATTGTGGGAGATGAANNAAGGGAAAGCCAATGGGCCTATTGGGTTTTCTATCTTGAG  
GGGCCAGGGCTTCAANAAACAGAAAAAGGGTCAAAATCATTCAAANGGACCATTAGGATT

Table 1

TCTTGGGAAAG

Sequence 3721

CCGCGGTGGCGGCCCGCCCGGGCAGGTACTTTTTGAGCCCACTGTGTGCTGCCTGNNTTT  
ATAAGACATTGAATTTTGTTAATAGAATGTAACTCCATGAAGGCAGAGATTTTGTTTA  
TTTTGTTCACTGTGGAATTGCTAGCACCTANAATACTGCTTGACAGACAGTAGGCAGTCT  
GTAAATTTATTTGTTTGTGTTGTTGTTTATTTATTTATTTATTTATTTTGA  
GATGGANTTCACTNTTGTCCGCTGGCTGGAGTGCTAGCGGCACAATCTCAGTTNACTT  
CAACCTCCGCTNCCGATTCAAGTGATTCTCCTGCCTNCGCCTCTAGAGTAGCTTGGGG  
ACTACCAGGCCGTTGCACCACCCACGCCCTGGGCTAATTTTTGGTANTTTTTAAGTAA  
AAGGGCGGGGGT

Sequence 3722

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGTGGTGGTGAAGCTGTAGCCGC  
GCTCGGTGAGGATCTTCATGAGGTAGTCAGTCAGGTCCCGGCCAGCCAGGTCCAGCCCGC  
GTACCT

Sequence 3723

TGGCGGCCGAGGTACATCCAAGATTAGGTCATAAAAAGTCTGTGGCAGCTACTCGGGAGG  
CTGAGGCAGGAGAATTGCTTGCACCCAGGAGGTGGAGTTGCACTGAGCTGAGACCACGC  
CACTGCACCTCAAGCCTGGGCTATAAGAGCAAAATCTGTCTCAAAAAAAGTCCGTGGCT  
TTTAATCTTGGGGGCTCTGCCTCTTNTGGCTTTTGTCTCAGTTACTCTGAAAAAAGCCA  
GGTGTCACACTGTAAGCTGTCTACAGAAGAGGCCCATGTACCAAAGAACTTAT

Sequence 3724

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACGTCTCTGTCTGG  
GCCTCGGCCAGGGTGCCGAGGGCCAGCATGGACACCAGGACCAGGGCGCAGATCACCTTG  
TTCTCCATGGTGGCCATTGCCTCCTCTCTGCTCCAAAGGCGACCCCGAGTCCCCCGCGTA  
CCTGCCCCG

Sequence 3725

GCGGTGGCCGGCCGCCCGGGCAGGTACGCGGGTCCAGGGCCGGTGGCACCCCTTCACCAA  
CAAGCCGACCACGTTCCGCGGGCTACGCCCCGAGAGGTTCAGGATCCTGCCCCAGCCCA  
TGTGCAAGCACAGTGAAGAGTTGTCCACCAACTGCAGGCCAGGCTTTTGGACTGTTAC  
TNCCGGTAAAAGGTNGGTTCTTTCCCTTTNNGGATTCCAAAGCCAGGCAAAATGGGAA  
CCCCATCAATNNGGCAAGTTTGACAAGANGGTTNTGCTTTGGGNATAATTGAANAANCTG  
CCCTGTTTTCTTTTNCANGNGGCCNTTGNTTTTTGGGGGGCCNGTGGACCTTTAGTT  
GAAAACCCNACTTCAATTTTTTTNTTCCAAAAGTTGGGCNATTCTCCTTTAAAAAACCC  
TGGANGNATGGAANGGAAAAGANCNTTCAAAGGGGTTTTTTNACCAGGGGNCCCCCTTN  
NNTTTTTTTTAAA

Sequence 3726

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGTGA  
GGGGTAGACATGGAAAGAAAGGCAGATCATGATTAAGGTTACAGAAGGAGAAGTAGCAA  
GGCTTTAATCCTAGAGCCCATCCTCCAGAGAATAAATGGTAAAAATGTTTGCCTTTGTG  
CCTTGGGAAGCGCTAGGCTCCTGCTGCTCTTTCATCAAAAAAAAAAAAAAAAAAAGT  
ACCT

Sequence 3727

CGGCCGCCCGGGCAGGTACCACTCAGAAGCCTTCACTGTCAACTTCGGGGACACCGAAGA  
GGCCAAGAAACAGATCAACGATTACGTGGAGAAGGGTACATTGGACATCCTGGACTGATT  
CTGTAATTTTCGTATCTTTTTCTCCCATGTTCCCTTTATTTGTCTTTTGGTTCTGCTTT  
TTGGGAGATTTTCTTAACCTTGATCTACCTGAGGCTCAGTCCTCATCTGTAAATGCTGAT  
AAAAGGACCTACCACCTAGCGTTGCTGTGAGGTGTCAGTGAAATAAATGTAAATGCTT  
AGCACAGTGAACTTTAATAAATGG

Sequence 3728

Table 1

AGGTACGCGGGTCAACTAAAAGAGGTATGGGAAGAGACTGATGGATTGGATCCTAATGAC  
TTTTGACCCCAAGACATTTTTCAAATTTACATGATGTCAATANGTTGATGGATTCTGGA  
T

## Sequence 3729

TACGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGTT  
GTGACTAGGAAAGGCATGGGACGACATGTGTCCAGGTGAGGTATGTGCCACAGGCAGTT  
ACGGATGTGTTGGAGGAGGAAATTCAGGAAGGGGCAAGATCTGGAACGAAGGCCTGGAG  
GGAGGTTCCCTGAAGGATGCTAAAGGAATACGCTTGAATCCATAGGTGCCATCGTGGTT  
GAGACAAGTGCAAAAAATGCTATTAATATCGAAGAGCTTTTTCAAGGAATCAGCCGCCAG  
ATCCACCCCTTGACCCCATGAAAATGGAACAATGGAACAATCAAAGTTGAGAAGCCA  
ACCATGCAAGCCAGCCGCCGGTGCTGTTGACCCAAGGGCCGTGGTCCACGGTACCTGCCC  
G

## Sequence 3730

CCGCGGTGGCGGCCGCCCGGGCAGGTACAGGCCCAACCCCGTCCAAAGGTCTTGCGT  
TGTAATGCCACCACCATTTGCCAGAAGACTCAGTCAACAATATTTGCAGCACAGACGGA  
TATTGTTTACGATGATAGAAGAGGATGACTCTGGGTTGCCTGTGGTCACTTCTGGTTGC  
CTAGGACTAGAAGGCTCAGATTTTCAGTGTGCGGGACACTCCCATTCCCATCAAAGAAGA  
TCAATTGAATGCTGCACAGAAAGGAACGAATGTAATAAGACCTACACCCTACACTGCCT  
CCATTGAAAAACAGAGATTTTGTGATGGACCTATACACCACAGGGCTTTACTTATATCT  
GTGACTGTCTGTAGTTTGCTCTTGGTCTTATCATATTATTTGTTACTTCCGGTATAAA  
AGACAAGAAACCAGACCTCGATACAGCATTGG

## Sequence 3731

CCGCGGTGGCGGCCGAGGTACGCGGGGCCCTCCACCATGTGAGGACACAGCAAGAAGGGG  
CTGACTCTGAACCAGGAAGCTGTGCTGTGCTCACCAGACACTTTGATCTTGGACTTCTCA  
GCCTCCAGAACTATGGGGTCTGCTCTTGTCAACCAGACTGGAGTGAAGTGGCACAATCT  
CGGCTCACTGCAACCTCCGCCTCCCGGGTTCAAGCGATTCCCTGCCTCAGCCTCCANAG  
TAGCTGGACTGCAGGCGCACGCCACCACTCCTGGCTAATTTTTGTATTTTGTAGAGAC  
GGGGTTTACCATGTTGGCCAAGATGTTCTTGATCTTCTCACCTTGATCCGCCACCT  
NAACCTCCCAAAGTGCTGAGAGACTAAGACACCTTTCTAGACAGAGAGGAGGCCGATGGC  
AGACATTCTCAGATAGGTTTGTAGCT

## Sequence 3732

CCGGGCAGGTACNCGGGGAGGCATTGAGGCNGCCAGCGCATGGGCTTCTGCTGAGGGGGC  
AAGCGGAGCTTGAGGAAACCGNAAGATAANTTTTTTCTCTTTNAAAGATANAGATTAAT  
NCANCTACTTAANAAAATATAGTCAAATCCGTTACTAAGATATTGCTTTAGCGNNAAGTT  
TTTAACCGTAATTTAATAGGCTTAAGATTTAACCA

## Sequence 3733

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTGGTGTGTG  
ATCGGAACGTGTCGATCCCCTCTTCTCATCACTGCTGCTCCAAGTGGATTATTACTCCG  
GGAATGGTCTGAGGGGGAAAACCAATGTGTTTAGCGTGCCTGCCACCTGCGCCTGAGCA  
CAACTATCCTGCAAATCTGACCTGCCCTCCTGCACAGGAAACCACTTCCCCTCCCAAT  
TGATGGTTCAAACACTGCCACCGCTGACTGCCCTGCATCTGTGGGTCTGTAGAACAGAAA  
GGTAGAACAACTTATTTTTAGGATTTAACGACAACCGGTTGAAAAACGGTAGGGGTGT  
CATGCTCACAGAGAATAAAGATTT

## Sequence 3734

CCGGGCAGGTACTATCAATGAAGCCTTACCAAAGGACGTGTCTGAGGATCCAGCTACCAA  
GTCAGGATTGTTACCCCCACCACCTGCGCTCCCTCCAAGACCTTGTCATCACAGTCTGA  
ACAAGTGTGCGAGGCCGAGTTACTCCCAAGCTTGAGCAGAAGCCCCATCCAGGCTTG  
CAGAAAGTAGTCCAGCAAAGAAGGATGTACCTCGGCCCGCTCTANNAACTAAGTGGGATC  
CCCCGGGCTGCAAGGAATTCGATATTAAGCTTTATTNGANANCCGTTNAAACCTTTNAA

Table 1

GGGGGGGG

Sequence 3735

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTAAATGTTTTGT  
AAAACTAAGACACATNTTAGCCTAGGCCTACACCCGGTCAGGATCATTATCACTGT  
CTTCTGCCTCCACACCTTGTCCCACTGGAAGGTCTTCAGGGGTGNGATCNTTAATACTGA  
GTGTCAAACCTTGACTTGGACTGAAGAATGCANAGTATTGTTCTGGTGTGTCTGTGAGGG  
TGTTGCCAAAGGAGATTAAACATTTGAGNTCANNTGGACTGGGANAGGCAAACCCCCCTNA  
ATCTGGGTNGGGCACCATCTAATCAGCTGCCAGCGCAGCTNGAATAAAGCANGAAGGAGA  
ANATGGAANAATGACTTGCANAGTTCTTCCANCCCTTNATTTTTTTN

Sequence 3736

GGCGGCCCGCCCGGGCAGGTACCCCATGTCTCCACACCAAAAGAGATCAGTTCTGGCAA  
GAAAGCTCCAACGTGCCTTGATGGTGTCTTGGTAGGATGCCTTAGGCCAGGCACCGTCC  
CAGCGATGTTCTGCTGGCTGAGGTACCTNCGCCCGNTCTAAAACTNAGTGGGATCCCCC  
GGGGCTGCAGGGANNTCNATATCAAAGCTTATCGATNCCCGTNNACNCTCGAGT

Sequence 3737

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGTATGGGATC  
TTAGGAAAAATGAGCCAATCATCAAAGTCAGTGACCATAGTAACAGAATGCATTGTTCTG  
GGTTGGCATGGCATCCTGATGTTGCTACTCAGATGGTCCTTGCCCTCCGAGGATGACCGGT  
TACCAAGTATCCCAGAATGTGGGGATCTTCGATTTGCNTTCTCTCACTTCCGTGCCT  
GGAAAAACCATGCNAGGGGG

Sequence 3738

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGACAGCAAC  
TTCCTTGATCCCTGCCACGCACGACTGAACACAGACAGCAGCCGCTCGCCATGAAGCTG  
CTGATGGTCCTCATGCTGGCGGCCCTCCTCCTGCACTGCTATGCAGATTCTGGCTGCAAA  
CTCCTGGAGGACATTGGTTTGAAGACCATCAATTCCGACATATCTATACCTGAATACA  
AAAGAGCTTNTTCAAGAGTTNATAAGACAGGTGATGCCCCGCTTGCAAGGCTATGGGGAA  
ATTTCAAAGCAGTGTTTTCTCAACCAGTNACATAGAACTNTGAAAAAACTTTTGGACTGA  
TGATGCATACAGTGACCTGCNCCGGGCCGCGCTCTAAGAACTAGT

Sequence 3739

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGCCGGGCAGGTACACTAAGAACCTCACCT  
CCTAAATTTGTTAGGTATCTTGCAATGCGGCCACTGAGATGGAGAGAGGCTGGGAGCTGG  
ACGAACGGCCATCTCTCCTCCATCTTGGCCTCGGCTCTAAGAACCTAAATCCCTGACTG  
GGATGCGTGCGGGAGTTCAATCCANGTATCGCCTGGCGGTGCTCCCCGGAGGCGCCTGCG  
GGAAAAATTCAGCTTTCCCTCTCCACGACAGGAGGCGCTGTTTTCGTGGAATCCCCCGGC  
TGCGAACCTGGGATCCCTGACCTGGATCAAGTCTCCGAAGCTGGCAGAGTCCATTCTGCA  
TCACCGGTCTTGGGCTTTGAAGAAAGCCTAGGAGAAATCCGCTTCGGCCATCACGCTATG  
AAAAGTGGATTTTTTTCTTAAGTCAATTTTTTTTTT

Sequence 3740

CCGCCCCGGGCAGGTACTTTTTTTTTTTTTTTTTNTTTTNTTTTGNCCAACGAAATTATT  
TATTGCTAGTCAGGAGGCCAGGACCNTCNANANTGAANAGTCNATGGGCCCNTGTGCAT  
GTTGANAGNTACACAGGGAATCGCTTGTTCAACCTTNTNAGGGNATAAAGNCAGAAANA  
GNGGCCACCANNTGGCCTCATNNGGNCCACNTTCCGGGNGGCCACAAGGGGGGGCCCC  
AGGGCNTTGGNTGCNNTCAAANANGAACNCTCANGGCCTTTTNNCAANNCTTTTGGCATT  
NTCCCAAAGGNTACCTTTATNTTGAANANGCCCCCCCCACNTTGNNTTTTGGGAATGG  
GGCNAAAAGCCTTTTTANNGGCTTTTTGCTTTTTGGGGGAATTTTGGGGTTNGAAANTT  
TTTTGGCTTNCNNATTGGAATNAAAAACATTGTTTTNTTNGGGNTTGNNTTTTTG  
NTTAAGGGGGGAANCAAAATTGGTATTTTCANTTCCAAGGGGA

Sequence 3741

TCAGTAACTATTTGAGGAATGAAATNGTNNTTGATATATTGATTTAACTGAGCAAATCC

Table 1

ATAAGTGCCACGCTTGGAGTAAAGNACAGGGAATCTNATNTTTTGGGTNANTTCAAACAA  
GGTAGGANACCATCCACTATCTNTNAAAGGACAAAGGAGATTTGAGTGACAAACATGTTCC  
AGACCATCCAATGGTGTTATTCTACTACTTCATCCCAGCTAGTAAAATGGGGCAATAAGA  
ACCAAAAAGCAGGTACTGTCCCTATGTAAGTAGACTTCC

Sequence 3742

CCTCTGCCCTTTTTGTTCTACGTGGGCCCTCAATGGATTGGATGACACCTGTCCGCACTG  
GTGAGGGTAAATCTTTACTTGGTCTTCTGATTCAAATGTCAATCTCTTCTGGAACCCCC  
TCACAGACACACCTAAGAAATAACGCTTACCAGCTCTCTGGGTAGTCCCTTAGCCCAGTC  
AAATTCACATACAAAANAAAAAAAAAAAAAAAAAAAAAGTACCTGCCCCGGGCN

Sequence 3743

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCTTGGGACGTGCCATGGCTTGGGAGA  
ACTAGTGAGGAACATATTTCTCCATGCCAGTCTCTTCCTAAAGGCCCCCGCGTACCT

Sequence 3744

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATTTTTTTCTTT  
TTTTTTTTCTTCGAGATGGAGTCTTGCACTGTTGCCCGGGCTGGGTTCGCGNGAGCCNAG  
ATTGNGCCATTGCACTCCANCCTGGGCAACAAGAGCGAACTCCATCTCAAAAAAAAAAA  
TNAACAAAAAAAAAATCNTTGANTTAGTTNTATGACCTNACAGGGTCAGTATAGGAGTAT  
CACTGTGAAAAGGTTANGGACATTGGTTNTCTNTNNNTTNTCTNNNAGATGGAGCCTGGG  
CAAC

Sequence 3745

CGAGGTACTAAGGTGAGATCATTTAATTTTACTAAAGATACTTTTGTGTTTGTGTTT  
GAGATGGAGTTTTGTTCTTGTTGCCAGGCTGGANTGAGACTCCATCTCAAAAAAAAAAA  
AAAGTACCAAAATGTTTACCTTNATAGTTAAAAATTACAAAAAATCTTTTTGNNTTAACG  
TNAATTTTATTTTTCCCANAGTTTTCTGTAANTGAAAATAATGCCACCCTAATTTTTT  
ATAATNGANTACANGTGGCCCTTGGCTATTAANCNACTCCTNTAACNTTC

Sequence 3746

CGCGGTGGCGGCNCGCCCGGNCAGGTACCTGTTGGCTTTCTGCAGAGATGCTTACTTTTC  
CTCTCCTATCAGAGTTTAATGTCTGGGACTCTGACATTTTGGCAAGTGTGTTCTTAACC  
CGCAGGGCTGTCAGCCTTGATGCAGGATTGTNAAGCCCAAGCATTCTGNTCATGAAGTT  
TTTCCCATCTTGCTTTAGACACTCATCACTGCTTCCACCGGTTTGGGAAATTGAAGGGG  
GCGGTAACCTCNTTGGATGGCACCACCAATCTTCCCTCATGGTCCCTTCATAAGGAGGG  
GTCACCTGGGGCACTTAGGGTCAATGAATAAAGGGAAAGCTTGGGTATTTCTTCCCACT  
AATTACCCTCCCTGGATACCACANTNTTCCCGTAGGCCAAACCCTTNCCCCAAAAAGGG  
AATTGAAGGGGCCCCAAAAAA

Sequence 3747

CACGCTGGTTTTGCATNTTACAGGAGACGCTCGTAGCCCTCGCGCTTCTCCTCGGNCAAT  
TCNCGGAAGAAGTGGCTNACGCCTTNCAGAGCCACATCATCGCGCCGAAATAGAAGCCC  
AGAGAGAGGTANGNTGTANNGAGGCCTTGNANGTACCTNNGGCACGCCTNTAAGAACTAG  
GTGGATCnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnNAGCTTATCGATACCGTNGTACCTC  
GTAGGNGGCGGGCTCCGGGTACCACANCTTTTTGTTTTCCCTTTTAAGNTGAAGNNGGTT  
AATTTTGCNNCGCTNTNGGNCGGTAAATTCNTGGGTTCNATTAGGCCTGGTTTTTCCTT  
GCTGCNAGAAAAANTTTGGNTNTAATTCNCNGCNTNCAACNANNTTTTNCNCAACGACCTA  
ANNNCATTAAACNNTAANCCCTCCGGGGGNAGGCCANTTAAAAAGTTNGTTAAANAGGCCC  
TTG

Sequence 3748

CGTTAATCATGGTCATAAGCCTGTTTCCTGTGTGAAAATTGTTATCNCGCTCACAATTC  
CACACAACATACCGAGCTCGGGAGCATAAANGTTGTAAGAGCCTGGGGGTGCCTAATGGA  
GTTGAGCCTTAACCTCACATTTAAATTGCCGTTGNNGCTTCACTTGCCCGCTTTTTNNCA  
GATCGGNGAAAACCCTTGGNTCCGTTGCCCAAGCNTGCAATTTNAAATGNAAATTCNNGG

Table 1

GCCCAAACCGCCNTCCGNGGGGGANGAAGGGCCGGGTTTTTTNGCCNGTTAATTTGGGG  
CCG

Sequence 3749

[illegible]

Sequence 3750

GGGGGGGGGGGGGNNNGTNNNTGNGCCTCTACTATCCTATNGGGCGAATTGGAGCTCCA  
CCCGCGGTGGCGGCCGAGGTACANAAGGCGGTCTGCTGACTTGGCTGGGCTAGAGGAT  
GAGGATGNCATCATTNAAGTGAATGGGGTGAATGTGCTAGAATGAACCCATGAAGAAGG  
TGGTGGATANAATCCAGAGCAANN TGGAANAATGTCACACTTTNTANTTTGTAAAAA  
GAAANGCCCTAATGATTNAATTTTGN CNANGCCTANTGTAATAANTNCCCCTTAATTTG  
NTNTCGCATCACCCCTGGGCNTNGAATTCNCTACNTGTGTAACAACCCCTCNTCCCN  
AGNAATTTNNTTAAATANGAAAAGGGGAAATTANGGTTGGGGATNGAAAGGTTNCNTAT  
ANCTCAATTGTAACNTTCGGCCAACCATTTNNNGGCCAAAAAAAAGGAAANCCTGGGGGTC  
CCCCCANCCANNTTAACTNCNTNGNCTCCCTNTGGGTCTGGGN CNCGNCNTTCCTTANGG  
AAAACNTTATGTTGGNGACTCCTCCNCCCNNGGGGCTNTGCCANATNGNATANTNT  
CTCGGAATTATACCAANACCTTTNANTCNCNCATTAACCNCCGNTCCAGAAACCCCTC  
CGTAAGG

Sequence 3751

CAAAGATCAAGGCACTTGGGAGAGAGTCAACAATANCATTNTAATACTACAAGCAGACTT  
CTCATGGGGAGGAAGAGAGGGAAGAAAAATGGGCANAGAGGAAAAAGGACATTGTATTC

Sequence 3752

Sequence 0762  
CCGGGCGAGGTACAGGTCCACCTGGCTGCTGGTCAGGCCTGCGGACCACCTGTTAATCGTG  
TCCCGGCTCAGTGCAGCGATGACTGTGTTTCATCTTCCCCTTGTCGGAAGGATGAAGAAG  
ACAGTTCCTCATTTGCCACGTTAGTTTCATCTTGCAACAGCTTGGNNAGGGGGCAGTCTCC  
GCNNTTCATGGAAGGGTAACGTGATGGTGCTTCGACTGCNAACATNATGGGCCNCCTT  
CACACANCAAGTTGTNCTTCGTTCCA

Sequence 3753

CCGGGCGAGGTACTTTGTCCAGCCCTGGTCA TCAGGAATCTGAATTAGGACTAGAGCATNA  
AAGCCTTAAGGNAATAAAGCAAAGCATTTGAACAACCTTGTCTCTGACCATTAACCTCG  
TTTTGAGGACCTCTGCAGAAAGTGNGAAAGTTCCTCANGGACAGGGGNCAGGGTGTTTNGGG  
ATCCCCGCTGCNTTCCCTTATGTTTTGTCTCCTNTCTCTCAATTCTCACACACCCCGCT  
AGNATATCCCGCTCAATACCAACTTTCAGAAA

Sequence 3754

Sequence 3754  
CCGCGGTGGCGGCCGCCGGGCAGGTACCAACTGAAAAATAAGACAACCAATCCCATCAT  
GGTGCCAACCACTCTAGTTGTCTTGGGAAAGTCACATTATTATCCATCTTGGCTTTCTTG  
CTCAAAAATGATGGATAGCTACACCTNACAGTGAGGATTCAATCATGTAAGCCAAAGTGC  
CTTGAAGACGAAGCCAGACATTATAGGAGCATAATTTTGCCTGAAATGCATTGGT  
AT

Sequence 3755

Sequence 9760  
CCGCGTGGCGCGCCGAGGTACGCGGGGACTCTCGTAGGACTGCTCTACACTGGGCCTGTG  
TCAATGGCCATGAGGAAGTAGTAACATTTCTGGTAGACAGAAAGTGCCAGCTTGACGTCC

Table 1

TTGATGGCGAACACAGGACACCTCTGATGAAGGCTCTACAATGCCATCAGGAGGCTTGTG  
CAAATATTCTGATAGATTCTGGTGCCGATATAAATCTCGTAGATGTGTATTGCAAACACC  
GCTTTTCCANTTTTCTTGGTTANTAGTGAAGAAATTTNCNANTGGGTGGCNAAACCTGTT  
GNCCCATGGTTGCAAGTCATCGAAGTGCACAACAAGAAGGAACATTTTGCAGGAACACCT  
GATGAGGCTGCACCCTTGGCGGAAAGAACACCTGACACAGCTGAAAGCTTGGTGGAAAAA  
ACACCTGATGAGGCTGCACCCTTGGTGGAAAGAACACCTGACACGGCTGAAA

Sequence 3756

CCGCGGTGGCGGCCGCCCGGGCAGGTCAAGACTGTAATGAGCTATGATTGCACCACTGCA  
CTCCAGCCTAGGCGACAGAGCTAGATTCCATTTCAAAAAAAAAAAGGTGGTGATGGTGGGG  
CCCGGCATGGTGGTTACACCTGTAATCCAGCACTTTGGGAGTGCTGAGGTGGGAGAAT  
TGCTTGATCCCAGGAGTTCGAGACCAGCCTGGGCAACATTGAAAGACCCCGTCTCTTAAA  
AAAAAAAAAAAAAGAGAGGTAATGGTGGCTCCCTTTCTCTCATCAACACACTCTGGGGGAT  
GAAAAGGATGATAATGTCTATGTGTGTGATAGATTGTAGAACGACTGCCACTGTGTTGAG  
TGAAGAAAAGGAGTATGTCTGCTGAACAGATTAACCTTCTGGGTCTCCAATCANTATGTGT  
TGGTGGCCNTANGGGGACTGCATGACTTTAACT

Sequence 3757

TGGCGGGGGTCAAGGCAGCCATCATGTTCTTGGCATCGAAGACCTGCTGGGTGAGTTCC  
GGCACTGTGAGAGCTCGATACTGCTGGCTTCCACGGCTGGTGAGAGGGGCAAAGCCAGGC  
ATAAAGAAATGGAGACGTGGGAAGGGGACCATGTTGACTGCCAACTTGCAGGAGGTCAGCA  
TTGAGCTGGCCAGGAAACGGAGGCAGGTGGTGACCACTCATGGTGGCTGAGACAAGG  
TGGTTCAGATCCCCCGCGTACGCNNGGTGGAGAAGGGCTGCTTTTTTTCAGTCTACA  
TTCTTCATTTTTTTTTTTCATTCTTGAATTCATTGTTTTGTGGGATCTAAGACCCAGGGG  
TCATTTGAGAGGNTTGACAGTATCTTTCTGACCAGTTGCCACATGACTTGCTTGACCCT  
GAGCCTGTGGAAATGGCATAGGG

Sequence 3758

CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGCCCTGCGGGCCTCTCTCCGTCGCC  
ATGGAAACGAAAGCGGCCAAGTAGAGCTCCGTCCTGACGCGCCGCTCCCGTGGGCTCCG  
GCCGGCTAAGCCGCGCGGACAACATGCTGAAAGCCAAGATCCTCTTCGTGGGGCCTTG  
CGAGAGTGGA AAAACTGTTTTGGCCAACCTTCTGACAGAATCTTCTGACATCACTGAATA  
CAGCCCAACCCAAGGAGTGAGGTTTGAGTCTGCTGGCCGGCCCTGATGAAGGATGCTCA  
TGGAGTGGTGATCGTCTTCAATGCTGACATCCCAAGCCACCGGAAGGAAATGGAGATGTG  
GTATTCCTGCTTTGTCCAACAGCCGTCCTTACAGGACACACAGTGTATGCTAATTGCACA  
CCACAAACCAGGCTCTGGAGATGATAAAGGAAGC

Sequence 3759

GGCNGCCCGGGCAGGTACCTGCTGTGTGCTGGACAATGTTCTGGGTGCTGGAGATGTAGT  
CGTGAACAAGAACAAGCCCTGAGCTTACATTACCAGGGCTAGTGAAGACAGNCAG  
CAAACAGAGAAACAGATGCATNAACGGGATCATTTTCAAGCCAGAATTGTTACAGAGAA  
AATAAACCAAGGGTCCAGTGCAGCAAGTGGCATTAGGGTGGCAGGTGTATAACATGGGCC  
AGGGGGGTCAGGACGACCACTCTGAATAGTG

Sequence 3760

GCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTT  
NCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
ACTNATTTNATGTNATCGNNGGGNNNCAAAGGCNTTTGGTCTGAAAAATCAAACCTGCTN  
AATAAATGCCNTAGTAAGTCCAACATATGGTTTCATGTAGGGGTAAAGTAACCATTG  
TGGAAGGATTACGATAAACTGTGTGACAATAAATAGAATAAAAGATGGCAAAACAATCT  
GTNAATTACAAAGTGTATAAAAAATGCATTTGAATTTCTAGGTGTTCTTACCATTTCCTA  
TATTCCTCATTGGCCNCAATGGGGGGGACCCNCCCTTCCTTAAAGTTGGGCAAGNNA  
AAAAAGGGTTTCCNCCCCCNCTTGGCTTGAAGGNTGNGGCNAAAAACCCCTTTCCCC  
AAACNTTTTTAAAAAAAATCTTTTATGNNNNACCCCCCCCCCAAAAT

Table 1

## Sequence 3761

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTNTTT  
TTTTTTTTTTTTGNTAAATTTTAGTATCAGGATGATACAGGGTTTATAGAATGAG  
TTAAGGAGGAGTCCCTCTTCTCATTTAGGGCTTATTTGACTGGTAGGNTTNTAATTAC  
TGCTTCAATTTCACTACTTGCNTTCTGTTTCNATTCNAATATTTCTTGTTCCCTTCCTTGT  
CAACTTTNGTTCANGTCTTCCCTGTTCAATTCCTTGTGTTTTCCATTAAATTTATTCATTN  
CCTCTAAGTTCGNGTAAAATAAGAATATGCTTTATAGTAGCTTCNTGAGGGATCNCCTTG  
TATTTCTTGGNGGGGGATCTATTTGGNGAATGTTCCACCTTTTTATTAA

## Sequence 3762

CCGCGGTGGCGGCCGAGGTACTGGACAGAGCTAGGAAAGCAAACCCATTTGCTTCTTCCT  
GCAGGAAACCCCTTGAGGTTAAGACCCCAACATCACATGAGGATGGAGTGGCTCACCCCTC  
AGTCAACAGGCCAGACTCAAGGGGTTCTTGGAAGTCATTTCTCCCTCAGGCCCTTCGGTT  
TCCTCACCTACAAGATGAGAGGGCTGGACCAGATGGAAATTCAGGGGGTAAGGGGGATGT  
CCTCGCTCAGCCACCCNACCCACGGGACCCTGGAGCCTCCATCCCAAGTTCCCACCA  
CGCGCCTGCTCCACAAATCCTACCCAAGGTGCTGTCATCTATATGATCTCAGTATTTTTA  
AACATTCAGCTTCAGCCCATATGGTGGTTCATGC

## Sequence 3763

CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTT  
TTTTTTTTTGGCAGCTCAACCTTCTTTAATGTCATCCAGGGAGGGGGCCAGGGATGGA  
NGGGAGGGGTTGAGNAGCCANAGGCANANTATTTTGGGTGGGATTCACCACTTTTCCCA  
TGAA

## Sequence 3764

CTATAGGGCGAATTGGAGCTCCCCGCGGNGCGGNCCGAGGGACTTTTAAGNAAAGGGCG  
GGGTTTNACTATGTTGGTCAGGCTGGTCTCAAACCTCCTAACCTCGCGATCTGCCCGCCTT  
GGCCTCCCGAAGTGCTGGAATTACAAGCATGAGCCACCATAACCGGCCTGATACTTTTGC  
TTTTCTTATTGAGGTATAAATGTAAGCACCTTAAATTCCTTCCCTTATATGAACACT  
GCATTTTGCTGGATTTTTAGACACTTAATTTCAACAACCAAGTGAATAACTCTTAACAT  
GGAAATTAGAGCTTGGTCCCAGTGACTCAGAGCTAAGGCTAATATTGAGCCTGCAGAAGA  
AATTTAATAACGGCCTTGTTAGTTTTTCTGGGGAGTCTCTCCTGCAGATNTCCAGCCT  
TCTCACTGAAGCCATGGNAGAAGCCTATT

## Sequence 3765

GCGGCCGACGTACANATGGGGTCTTGCTATGTTGCCCAAGCTGGTCTTAACTCCTGGCC  
TCAAGCAATCCTTCTGCCTTGGCCCCCAAGTGCTGGGATTGTGGGCATGAGCTGCTGT  
GCCAGCCTCCATGTTTAAATATCAACTCTCACTCCTGAATTCANTTGCTTTGCCCAAGA  
TAGGAGTTCTCTGATGCANTAAATTATTGGGCTCTTTTAGGGTAAGAAGTTGTGTNTT  
GTCTGGCCACATCTTGACTAGGTATTGCCTACTCTGAAGA

## Sequence 3766

TTTTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAGGTGTGCCCTGGTGCATAAA  
TAGNTACTCAGCTGTGCTGGCACACTCAGAAGCTTGGACCGCATCCTAGCCGCCGACTCA  
CACAAGGCAGGTGGGTGAGGAAATCCANAGTTGCCATGGAGAAAAATTNCAGTGTCAAGC  
ATTCTTTGCTCCTTNGGGGCCCCCTCTCCTACACTCTTGCCCCAGGAGATCCACAGTCAAA  
CCTGGNAGCCCATAAAAGGGACACCAAAGGGACTTCTCGNACCCAAAAGTGC

## Sequence 3767

CCGGGCAGGTACTACTCGATTCTCAACGTCAAGGAGTCGCAGCTCGCCTGGTCTAGGAA  
TAATGGGGGAAGTATGTAGGAGTTGAAGATTAGTCCGCCGTAGTGGTGTACGCCGGGGA  
TTCCCATGGCTGGCCAGAGGAGGAACGCTTTGTGTTCTCATCGGAGCTGCATGGGAAGTC  
TGCATACAGCAAANTGACCTGCATGCCTCACCTATGGAAAGGATGGTGGGCTCTGNCCT  
CCTGTGGCTGGCCTTGGTNTCCTG

## Sequence 3768



Table 1

CCGCGGTGGCGGCCGCCCGGGCAGGTACAGCTAGGCTCAGCAGCAAAAGTGAAGAATAAG  
AATGAAAGGTGAAAAGCTGACAGATGCCACGCAGAGCAAGGACTTCCATGAAGGTCCCGT  
GTCCTGTGTGCCAAACACAGTCAACATTCCATCATTTTCTCATTGCTCTTAAACGAGCAA  
AACCAAATTCTTTTTCTATTTAAAGAAATATTAAATCTTTATTTTCCCAACATAATT  
GTGATCAGGTAAGGCAAAGATAAGTCCACCATCACTGGGGACAGCAGCAACATACAGACT  
TCAGAAATAGCCCTGAATCATCAGTAACATTCTATCGTGGTCCCGCTACCTCGGCCGCT  
CTAG

Sequence 3769

AGGTACAGGTTTGGGCCCAGAGGTCTGACAGGAAGGGCAGTAGGAGAGGTGGTCGTAGAT  
GATGGGCCAGAGGGCGCAGGGCCTAGCAGGCCATGGAAAGGACTCTAGGTTTTACGCTAG  
GTAAATGAGGAGGCACTGCAGGGCTTTGAGCAGCAGAGTAACACAGTCTAACTTACTTT  
TTTTTTAATGGATCCTACCAGCTGCTAAGTTAAGAATAATTTCCAGTGAGGGCTTTTGT  
AGTAAATTAGAGATGATGCTGGTTTGTCAATCTCCCTTCCAGCAGAGGAATGTGTGGT  
AAGAGAGTCACAATGTTTCTGAACAAAGCCATAGCTCCTAAGTGGTGAAGCTG

Sequence 3770

CACAAGACAGAATAGCCAGATCTCAGAGGAGCCTGGCTAANCAAAACCCTGCAGAACGGC  
TGCCTAATTTACAGCAACCATGAGGCCACTTAAGGATGCAGCAAGAAGGAGCCATCTGCA  
ATCCAGGAAGAAATTCCTTGCCAGGAACCAATGGTTGTCACCTTCATCTAGGACTTCT  
AGCCTCGAAGAACTTACAAATGGTGATGATCATCANGTCAAGGATAGTCTGGAGCAATTGA  
GATGTCACCTTACATGGGAGTTATTCATTGAT

Sequence 3771

AGGTACTTTTTTTTTTTTTTTTTTTTTTGGCCCAACATCAACCCTTCTTTAATGTCATC  
CANGGAGGGGGCCAGGGATGGAGGNNAGGGGNTGAGCAGCTAGAGGNATCTAACTTACCT  
TCCANTTCAAACATTNTNNCAGGAATAAANNNTATACTAAATCGTATGACGTNCCAAGN  
ACNNANCNAACGGGTTANATAAAANGCACAGCATAANGN

Sequence 3772

ACAAAGAGTCACCGCAGAAACACTTNTGGCACACCTTCCATAGCAGTGTCTGGAACCTNT  
CTCTCCTCAGATCAGAGTCGATCTGAGTTAGATTTGAGTGAGTCATGTTACAGAAGACTC  
ATNAGGATACTGNTAAGCATTAAAGAAAGCANTNCTTGTCCTGGGGGCTTTTANGACAN  
TGGACTTNCCTTGGGAAGAAGACTGAAGAAAGCATTGATGCCTTAGTGCTTNGCAGNNT  
ATCGTACAAACACTCACCGTNNNTGGCAAGTGGCCTA

Sequence 3773

CCGGGCAGGTACCCTGGCCTAGATGCCAGTAGCATATCCCCAGTTGTCAAACCAAATA  
GTTCTCCAGCAATGCAAATTATCACCTCATGTGTGCGTGGTATT

Sequence 3774

TCACCAATCCCCATCTTTATCTTGGTAATTTTAGTTCAACATTGCTCAGCTGATGGCTC  
ATTAAAGCCAAGAACTCTCCAGGTCTCAGTTACCATTTTCAGACAAGACACCTTCTGGGG  
GTGC

Sequence 3775

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCCGGCCCGCCGGGCAGGTACGCGGGACA  
ACAGGGTTTGTGCTCCTATGAGAATTTAATGCTGCTGCTGATCTGACAGGAGGTGGAGCT  
CAGGCAGCAATGCCAGCAATGGGGAGCTGCTGTAAATACAGATGAAGTTTCACTCACTCG  
CCCACCACTAACCTTCTGCTGTGTGGCCCATTTCTAACAGGCCATGGGTTGGTACATCA  
GTTTACTTCGGTAGCCAGTGATTGTTATAGTTAATTCTGCAAAAAACAAACCAAGTTAT  
GCAAAAAACAAGAGTACCT

Sequence 3776

TATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCCGGCCCGCCGGGCAGGTACTGC  
AATAACAAAATACAGCAATAAAACAACTGGACACTCCTAGGGGACACCAAGATAAAGGG  
CCCATTAATCAGGTGGAGGCCAGAGAAACCGGAAGGCTATTTTAAAGTGTTAATATAAT

Table 1

CATGTAAGGAAAAAAAAATCTCCCCAAAAACAATAAAGTCAAGCAATTCATATCTATATG  
AACTTATTTTCATATCTATATGACTAAAAAATGAAAATGACCTTTGCTGGCATTATTGCT  
ACGCGAATATCCATACTTTCCCCCTTGATATTTAAGGACATGTGGGAGAACTTTATAAAC  
AAGTAAAGTGTGCAGAGAAGGCACTGTTTTGGCACTAGCAAAAAGGGACAGTTAATTTCA  
CATGAATCACCGTGAACCTTTAATAACCCATGATAT

Sequence 3777

AGGTACTTTTTTTTTTTTTTTTTTTTTTCTCTCAAATACATAGGGGCTTTTCCCCT  
GGGCAGTTNGCATTCCACAATTACTTGTTTAGNGTTTTCCAAGCTCCCAGGGCTGGGCTG  
NGTCTCCGNGCCTGCCCCAGGGGCTTTCATGGGAAANANGGNTNNNGAAAAGGAGCNNT  
AANGCCNTAANCTTGATTTGNGNGCGAAGCTTTTTAGGCCATCCATCATTCAAAGAGCTG  
GAAAAG

Sequence 3778

CCGCGGTGGCGGCCGAGGTACTCAAAGCACGTTGCTGGGAGGCAGTGGACAGACTGCTCA  
GCAACTAACCGCTCCGTGAACCTCCACATCGTTCTCAAATTCCTGGGAAATGTTCCATCTCA  
ATTCCAACCTATACCAACAGGAGGGAGAGGCCAACTTATCAGAAGGAGGGGAGAACAGGC  
CAATTTCTGTGCCAGAAATTAAGGCCAGGCCTACCACTCCTATGGCACAGTATTGATGA  
GAGACATCAGTGGAGCTCCCCACCTCCACCCAGGCTTGGAACCTAGGGAATGACTGGTT  
TTTGTCAATTCACACAACAGCTGAAGGATTCTGTCCCCACCTCGTCCTCTGTGAAGTTCT  
GCTGGACCGTACCTGCCAGAATCTTCTGAAGATGACGTTTGCTTGAACACTGACCCACAG  
GGGTTTGATGGA

Sequence 3779

CCGCGGTGGCGGCCGCCCCGGGCAGGTACGCGGGGAGGTGGATTTGAGAGATACCTCCCTC  
CTTCTGCTCAGCTGCCTTGCACTAATTAACCTCTTCTCTGCTGCAACACCCCTACTGTT  
CTCCGTGTATTGGCTTTTCTGGGCAGCAGGAAGGAAAAGCTGATGCGATGCTCTCAGTGC  
CGCGTCGCCAAATACTGTAGTGCTAAGTGTCAGAAAAAAGCTTGCCAGACCACAAGCGG  
GAATGCAAAATGCCTTAAAGCTGCAAAACCCAGATATCCTCCAGACTCCGTTCCAGCTTCTT  
GGCAGAGTTGTCTTCAAACCTTATGGATGGAGCACCTTCAGAATCAGAGAAGCTTTACTCA  
TTTTATGATCTGGAGTCAAATATTAACAACTGACTGAAGATAAGAAAGA

Sequence 3780

CCGGGCAGGTACAAGAAAAAACCCACAGCCTAANTNTCACACGGCTTCTCAGCAGGAG  
TTGGATTAACTGAGAAAATAATTTTAAATATCAAGGGATAATGCACGCAAGATGGGAAA  
CTTTAAAGCAAACCTCTGCAGTGAAAAGTGTTTCCCCACTCCCTTGGGCGAGGGAAGGGA  
GAAGAAGATAGATAATGAGGAGAACTATAAGGCCCTGGATTGAGTTTCTGAACTGNNT  
TTTTTTTCAACCCTNGGAGGACAATCAGCTCTTCTGAATCCAGAAAAGCACATCAGAAA  
TGCCCAATGACAGACCACAGCCAAATATGGCAGGGCAAACCTGATTTGGTTCTGCGATTTC  
CATTCTCCTCTCCACATNCGAGAAATGCCTTCAGCTACAGCTAA

Sequence 3781

CCGGGCACGGTACGCGGGTAGAAATGAGCATAACAATAATAGGACACTATGAAAAAGAAG  
GGTAATGAGAGGTGGGACCAAGTCTATAAGATATTAAGGGTAAGTCTCTCCGGCCCGGT  
TTCCCTCGGTGTGCTACTGTGCGCGCCGATCCAGCACCATGGGGAAGCGGGACAATCGGG  
TGGCCTATATGAACCAATAGCAATGGCGAGATCAAGGGGTCCAATCCAGTCTTCAGGGC  
CAACAATACAGGATTATCTGAATCGACCAAGGCCTACCTGGGAAGAAGTAAAAGAGCAAC  
TAGAAAAGGAAAAGAAAGGCTCCAAGGCTTTGGCTGAATTTGAAG/AAAAATGAATGAGA  
ACTGGAAGAAAGAACTGGAAAAACACAGAGAGAAA

Sequence 3782

TCTCCCCGCGGTGGCGGCCGAGGTACCAGACTAGACATGGGCTTCCTTACTATGTCCCGA  
CNCATGACAGATAGGCATCACTATTCAAGAGGACTGGGGCTTGCAACCACAGATTAGCAT  
CTTATTTGCCATTTAGGTCCCAGATTGCTTGAGCCCAGGAGTTCAAGACCAAGCCTGGGC  
AACATAGCAAGACCTCATCTCTACAAAAATAAAAAAATTAGCCAAGCATCATAGTGCAC

Table 1

GACTGTTGTCCCACTACTCAGGAGGCTGGGGCAGGACGATTGCTTGAGCCCAGGAGCTT  
AAAGCTGCAGTAAGTGGTGACTTGCCACTGCACTCCAGCCTGGGCAACAAAGCAAGACTC  
TGCTCAAAAAAGAAGAGAAAGCTGAAAGGGTTAGAGACTCAGCAGATGTTTCTAGATAA  
GACCAGTTTG

Sequence 3783

CCATTTGGAATCCGGCAATNGTNTTTTNGCNAAGGNCGCGGGCCGCGCGGGCAGGTACTCGG  
GTGACCCAAGGTNGACCATTTTAANTTTCTAAGTTTCACCGAGATTAAACATGCATTGT  
TGAAAGACAAACCTCTTTTACCCTACTCCCCAGCTGCAATGCTTTTCAGGGTTCACATC  
ATGTTGGAACATTGTGTACAGTGTTTCTAACTTTGCGGGTAAATTTGTTCAAGTAG  
GTAAAAATGGAGCACATACAAAAAAGTACCT

Sequence 3784

CCGGGCAGGTACATGACTGATATTACACCTCAAGGTGTGGCTATGAGAGCTGGAGTTCTG  
GCTGATGATCACTTGATTGAAGTGAATGGAGAGAATGTAGAGGATGCCAGCCATGATAGA  
AGTGTTGAAAAGGTGAAGAAGTTCAAGGAAAGCCCGTTGGTCCATGGTTCCTTGCTNGG  
TNGGACAAAANGAAAAGTGGACAAGCCGTTTCATNGTTTGNAGGCANGAAAGTATANCAAA  
TTTCAACAGGGGAGTAAANCAGCCCCAGNTTTGAAAAACNTGTTTACCCCTCANTCAAACNC  
CCCAGAAATTTGTNGGNGANGNATTGAAAANAAAAGGGAAAGCAAATTTGGGCTTATNGGNT  
TCTNATCTTGAAGGGGCCA

Sequence 3785

TCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACACCACAATG  
GCTGAGCACTNACTGACNTTGCTGGTAGTGCTGCCATCAANAAAGATTATGGGTGCCA  
GGAAGACTTCACTTCAAGTGTNGGAACACCACCCATGAAAGGGGCTTCAAGTGTGTGG  
GCTNCACTACTATACCGGATTTTGAGGGACTACCCCTACTTCAAAGAAGAACAGTGCCT  
TTCCCCCATTTCTGTTTGCAATGACAACCGTCACCAACACAGCCAATGAAACCTGCNCCAA  
GCAAAAGGCTCACCGACCAAAAAAGTAGAAGGGTTTGCTTTCAATCANCTTTTNGTATGA  
ACANTCCGAAACTTAATGCCAGTCCACCCGTGGGGTTGGTGTGGGCATGCTTGGGAATTT  
GGGGGGGTCTCCGAGCTGGGCTTGCCATGGATTGTTGCCATTGTATCTNGTACCTNG  
GGCCGCTCTAAGAAANTTAGGTGGGATTTCCG

Sequence 3786

CCGCGGTGGCGGCCGCCCGGGCAGGTACAAGGGCATGACAGGCTGGGAGGTGGCTGGTGA  
TCACATTTACACAGCTGCTGGAGCCTCAGACAATGACTTCATGATTCTCACTCTGGTTGT  
GCCAGGATTTAGACCTCCGCAGTCGGTGATGGCAGACACAGAGAATAAAGAGGTGGCCAG  
AATCACATTTGTCTTTGAGACCCTCTGTCTGTGAACTGTGAGCTCTACTTCATGGTGGG  
TGTGAATTCTAGGACCAACACTCCTGTGGAGACGTGGAAGGTTCCAAAGGCCAAACAAGT  
CCTATACCTACATCATTTAGGAGCAACACTACCAGGACTTCACCTGGGCCTTTCCAGAGG  
ACCACTTTTACATGAGGCAAGCAGGAAGTACCTCGGC

Sequence 3787

AGATACCAGGCCGTTTCCCCCTGGAAGCTTCCCTCGTGCGCTTCTTCTGTTTCCGAACCC  
TGCCGCTTACCGGGATACCTGTCCCGCCTTTTNTCCCTTCGGGAAAGCCGTTGGG

Sequence 3788

[illegible]

GGCGCGCTTGGCCGTAATCATGGTCATAAGCTGTTTTCCTGTGTGAA

Sequence 3789

Table 1

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTATGGTCGGGGTG  
GAGCGGGGCATCTTTACTGTCAGTCACTGGCACTTGTCCTGTGAAGACCTGATGAACC  
AGAGCATTTCTCTTCTTGTCTGCTCACCAGCCAGCTGAGGGAATGTCGATGCTGGCAA  
TGGGCACAGTGAGTCCCTTCAGGACACTCAGGATGCTGTGGAACGGTTCCCGAACATCGC  
CCTTGAAGCTGAAGCCAAAGATGGCATCCACCACCAGCTCATACAGTTCATCAATCGTCA  
TGGGCTCTGCGGGCATTCCCCAAGGAAAGGGATGTCCATTTCTGACACTGGGTACCA  
ATGCAAGTGAAGAGGGGGCTTGTAGGCCTTTTGGGGTAATAGATGGTTGGCTCGTAGCC  
AAAGAGTTTGAGGTGTCGAGCACAAGACCAGACCATCTTCTCCATTATCCCCGG

Sequence 3790

TCACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTACGGAGTGA  
CAAAGGGAAAAGTCTGCTTTGAGGCAAAGGTAACCCAGAATCTCCCAATGAAAGAAGGCT  
GCACAGAGGTCTCTCTCCTTCGAGTTGGGTGGTCTGTTGATTTTCCCGTCCACAGCTTG  
GTGAAGATGAATTCTCTTACGGTTTCGATGGACGAGGACTCAAGGCAGAAATGGACAAT  
TTGAGGAATTTGGCCAGACTTTTGGGGAGAATGATGTTATTGGCTGCCCTTGCTAATTTTG  
AGACTGAAGAAGTAGAACTTTCTTCTCCAAGAATGGAGAAGACCTAGGTGTGGCATTCT  
GGATCANCAAGGATTCCTTGGCAGACCGGGCCCTTCTACCCCATGTCCTCTGCAAAAATT  
TGTGTTGTAGAAATTAACCTCCGGTCAAGAAGGGAGGGAGCCCTTCTT

Sequence 3791

CACCTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCGTTAGCTGAAGGCCAGCAGG  
GACCGCAAAAGTTTTAGGCCCTTANGTCTTTAGGTTGGCATACGTATCANGGACAGTA  
ACTACCATGGCTCCCGAAGTTTTGCCNAAACCTCGGATGCGTGGCCTTCTGGCCAGGCCG  
TCTGCGAAATCATATGGCTGTAAGCATTTCCGTGCTATCCCTGGGGGTTGCANGCTTTTG  
TNTAAGTTTCGTGTGGGCTGATCAAAGAAAGGACATACGAGATTTTCTACAGAAACT  
TATAGGTNATCTTGGGAATATAAAGGAATTTTCTCAGGTTGAANTTACCCTANGAAAGTT  
TTGGTCCACTGACCTTTGTGGTTTCCCTTGAAACCTATTGACCACCATTGGAAATAATGG  
TGGGGGCCCTTAAAGNAAAATTAAGTTTCCCTTCTTGAATANANATTA AAAACCAAATT  
TAGGCCAA

Sequence 3792

TCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTT  
TTTTTTTTTTCGGGGGGAGCATGGGACCTTTATTCGTTAANACATCAGGCTCCAGATAT  
GAACTTTCAGCAGAAGCGCTTGCCGGGAGCAAAGGGACAGAAAAGCTGANATGAACAAGT  
GCCTGGCAGNAATCACAGCCCGGGCAAGGGTGCTCCAAGCCTCGCATCCCCCGGC

Sequence 3793

CGAGGTACTTGTGACAGGCAGACGTGATTGCAGCCACGAACACGATGAACCTCACTGAAGT  
CCACCTGGGCATCTCCATTGGCGTCCAGGTCCCTTGAGCAATTTATCCACGGCATCCTTGT  
CTTTTCCACTCTGCAGGAAGCCTGGTAGCTCCTTCTCCATCAGCACCTTGAGCTCCCCCT  
TGGTCAGGGTCTGCGTGCTGCCCTCGCTGCCCGAATATCGGGAAAAGACGTCTATGATCA  
TGCCCATGGCTGTCTAGTTCGTCATGGTGCTAGATTAGACCCACCTTCTCCTGGG  
GGCTGGCAGGGCCGAGAAAATGTCCCCGCGTACGCGGGGGACTCAGATCCAGCCAGTGG  
ACTTAGCCCCTGTTGCTCCTCCGATAACTGGGGTGACCTTGGTTAATATTCACCAGCAG  
CCTCCCCCGTTGCCCTCTGGATCCAC

Sequence 3794

CCGGGCAGGTACGCGGGTTCTCATCTTTTCTCCTTTATCTTCACTCTGATTTTCTTTT  
GTCAATTCAACGCTTACTCCCTTCCCCATACCTCAGTCCCTCCAGGTGACACCTGGGCGCTT  
TTCTGCCTGAACAGCATTTCCACCAACGGCCACAGCAGTCGGTCAGTGTCTCTTGAGC  
ACCTCCTGAAGCTGCAGTGTCAATTTGCTGTTTGGCCTAAAAGCCACGCCAGATTCTT  
CTACCGCTGCTTCCCTGATGGGCTAGCCCATCTGACTTGATGTGTACCT

Sequence 3795

Table 1

GGCGGCCGAGGNACTGTGCTCAAAGCTGAAAATGTTTACTGTCTTTCCCCTCACAAAGTT  
TTCAGACTGCTGGCCTAGGGTTTTAGGGTGGNGGATAGAGACGGTATTAACCAAAACAG  
AAAAATCATCCATTATTATGATGATGGGTGAGAAAGAAAGACGGTATCAATCTTGGAGCA  
CTTAAATGGGAGGTGTCAAAGGACACACAGCAAGGCAGCCAGTGTGAAATGGAAAGCTC  
ATCCCACTGAAGGGGCGTGGCACTTGGCTATCCCCTCTGCCTANTACCTGCCCC

Sequence 3796

ATACCTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTAGAGTCCAATTTT  
CCTACCTTGGCTTGTGCATGAGGTGCTGCTGCCACGGTGCTGCTTTTCTCCCTGTG  
TCACCTCCACTGCCTCCTGAATAACAGTCTCAGGTTTGTCTATGGCCTCTGCAGGGAGCC  
GGGATCCCAGACAGAGCAGGCCACTTAAATCAGGTGGGACGCTCTCCCCTCTTGGCCG  
GAGTCCAACCTCCACGCAGGCACAGAGATCCCAGATGGGCCCCCAAGTTTGTGAGAAACAC  
ATTCACTGTGTCAAACCCAAAGAATGGACTCAGAGACACAAAAGAACAATGGAAGAGAGA  
ATTTAATGGTGATCGTGCAAGAATGGGTGTCTGGTAGGCAGGCCCGCGTACCTGCCCC

0

Sequence 3797

TTAGGGCGAATTGGAGCTCCCCGCGGNGGCGGNGCAGGNACTCNNTNTNGTTCTNTTTNNN  
CNCNCTGNCTTNTCTNNNATGCTGNTNATGTCATTCANTGGGTGCACTAAAGGATCTNTT  
ATTTTATGTAAACGTTGGGATTGACAAGATAGATCTGACACTCTGTTAAGTTACCCCTCT  
GAAGCTACTGNNTTGNAAAATACTAATGACAGNATCATCCTGCCAAGCGAAAGAGGCAGG  
CATNAAGCAAGGACAAATTAAGGGGGTAAGAGCCTTATCATGATGAGGAGTCTTGNTT  
TGACATCTTGG

Sequence 3798

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGT  
GGACAGACTGCTTTGCCTGTTGTTGCTCTTCGAGGCGGGCGATCCCCGAAGGCGAGCTGA  
AATACGGCTGCAGGCTACAATTTGCAGCCGACCATTATGGATGACAAGGAGCCGAAGAGG  
TGGCCACCCCTCAGGGACCGCTTGTGCTCGGATGGCTTCTTATTTCCCAATACCCATT  
AAACCGTATCATCTGAAGGGGATCCACAGAGCTGTCTTCTATCGTGATCTGGAGGAAGT  
AAGTTCTGTTCTGCTCACGCGTTATGACATCAATAAGAGAGACAGGAAGGAAAGGACCGCC  
CTACATTTGGCCTGTGCCACTGGCCAACCGGAAATGGTACCT

Sequence 3799

CGAATTGGAGCTTTCCGNGGAGGCGGCCGCCCGGGCANGGTACTTTTTTTTTTTTTTTT  
TTTTTGCACTCACATGNTTGGCAGGGACCAGCTCAACCCCTTCTTTAATGTNATNCAGGGA  
GGGGGCCANGGATGGAGGGGAGGGGNTGAGGANCNANAGGCACCTATTTNTGGGTGGGAT  
TCACCACTTTTTCCATGAACAGGGGAACTTGGCTATTTTGGTCAATCAITTAATNAAGAC  
AAAGGGTGTTGTTGAACCTTGACCTNGNGGGGGATATGACATGGGTATGNGCTCTAAA

Sequence 3800

CTCCACCGNGGTGGCGGCCGCCCGGGCNGGTACAGGAAGGCCCATGCTGTTATTACTCTT  
ACACAAGGAGGCGAGCCCTCGAGCCACAGGGTCCAGCTGTNGGCTATATAGCCTACCGGT  
CTCTGATGATCACCATGTTNCTGGAATCAAGCCAGGAAGAAGCACCNATCTGTCTTCTG  
GATTAACCTGAANATCAACCTACTTTCAACTTACTAAGAAAGGGGATCATGGACATTGA  
AGCATATCTTGAAAGAATTGGCTATAAGAAGACTANGAACAAATTGCACTTGGANACATT  
AAGT

Sequence 3801

AGGGCGAATTGGAGCTCCCCGCGGTGGCAGGCGGCCGCCCGGGCAGGTACAAGGCATGCT  
GCTTTGATGATCTTGTGGCGGGGTGTGCGAAGGTAAGGCCTATTGACTTCTGGGCAAGG  
TCTTCAGTGACCACTTCTAGGTCTGTTGCAATTAGGTTCAAAAATTTCTTTCTTTGTGCT  
TTTAGGTTCCAAGAAAAATCCATATGGGATAAGAACACTTGAGAATGCGCCGAGTTTTT  
AAGAGCACATGAACTGCATCTTCAATGAAAGTGGTATCTGGACAGCCTCCTCAGGTTTC  
TTTGAGAGCTCTGCTCAATTGCTCCATCTTTCTTTGGCTGTTTAAGAAGGCCGTTGTT

Table 1

CTAGCTGATAACTATGCTCATGGTTTTTAAATCTTGTATAATAGTGCATAAATCTGTCAA  
GTTCTGAAATCGTTTGTGTTTTTC

Sequence 3802

CATTGCTTTNGGCTTTTGTCTCTTTCTCCTTTTGAAGCTCAAAGGGCATATAGTGGACT  
NTGATCCNANGATNCCTTTTTTCCCTGCTTTGGCTGCCTCTGGNGAGGGTCATGTGTCAA  
AGCAGANACGGGNAAAAGCCAAACCGACACAATGANCCTNCTNANAAAGGAACTTCTT  
CGGAATGAAAAG

Sequence 3803

GNGGCGGCCGAGGTNCGCGGGAGAAATAAAATGTGGTCCTAATGCCAGGACTAAAATGGA  
CCTANTGCCAAATTAGTCCAATTGNAGCCTTTGCTTCAGCTGGATCATCCCGTGTTNGTT  
ANGAGCTCAGCTGTGGCCA

Sequence 3804

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTNTTTTTTTTTTTNTCCC  
TAGGCAAGGAGGGATGATNATTTATTAGCTTCTACAGATNACACAATGGGGTGGGGGTGG  
GCTCAAGGTGAG

Sequence 3805

CTATAGGGCGAATNGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAGCCTGAGAAG  
GACTTTTCCGAAAAGGCAAAACCTTCACCCACCCATTGGGAGAAAAACCCAGACGCCAG  
GAAAAGAAGAAACAACAAAGGCAGGAGAACAGCCACTTTCAGACTTGAAAATGACAAAAC  
CCTCAATTTGAGCCTGAGCCCCCGGCGCGGGGGCTGCTACACTACAGGACACCCAGCATC  
GGCTTTGACTGCAGACTGTTACCCACACGAGCCCTGTGCTTTTGGTGAAATAATGTAC  
CTGCCCCG

Sequence 3806

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCACGGTACGCGGGGGG  
AGACCATTGCTCTATAGCAAGACCAGACTTTGCCCTTCTCCTCTCAGCCTACTCAACGT  
GAATATAATGAGGATGAAGACCTTTGTAATGACCTTTTCCACATAATGAATAGCCATTG  
GGAGACACACTTCTGAACACCACCACTGGAAAATCACACATGCTGAAATGGGAGAGTTCC  
CTGACCCCCCTTGAGGATATGTGACAGGAGTGTGGCTCATCTGTTGAGCTGGAGTGCATA  
CTCAAACCCCTTATGAGACAAGGAGTATGCAGACAGGAAGGTGCAGGGAAGTGGGGTGAG  
TACCTCGGCCGCTCTAGAAGTAGGTGGATCCCCCGGGCCTGCAGGGAATTGCATATCAAG  
CCTTATCGATAC

Sequence 3807

CTTAGGGCAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTT  
TTTTTTTCGCACTACCTCCCCGGGTGGGAGTGGGTAATTTGCNCNCCTGCTGCCTTCCT  
TGGATGTGGTANCCGTTTNTCAGGCTCCCTCTCCGGAATCGAACCCCTGATTCCCCGTCAC  
CCGTGGTCACCATGGTAGGCACGGGCGACTACCATCAAAAGTTGAATAGGGCAGACGTTT  
NAATGGGTCGTGCGCNCCACGGGGGGCGTGCANATCGGCCCCACGNTGTACCTGCCCGGG  
CGGCTCGTTCTANAAGTANGGGGATCCCCCGGGCTGCAGGAAATTCGATNTCANGCTTAT  
CNNATACCCGTCNGACCTNGAAGGGGGGGGGG

Sequence 3808

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGTTCCCTTCTGAT  
TTGGTCTAGATACCAGAATCCATTCTTCCGTCAAACGGAAGACACAAGGCACCTGAGG  
CTGATCCTTCCAGAAATTAATCCAGAGGCTGCCACATCTGGTATGAGCGTCCAAACCC  
AGCATCGACAATGTAGTTCTGCCATCAATGGTCACCTGCAGGAGAAGGTGAATCATGCC  
AGTGCTGTATTTTTGGCTGGAGTGCTGTAAACATACCCTCCCAACATCGTGGNCTCAAA  
ACCAATAGTGGTCAGAGCCCAGTACCTGCCCGGGCGGCCGNTCGAGTTAATTGCGCGCTT  
GG

Sequence 3809

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTNNNTTTTTTTTTTTTTTCT

Table 1

TCTTTTAGGNNNTCCTNTCTTNAATTTNTGGGTTTTCTTNTGCATTCTNNNNANNGTCAA  
AGCTTACCCACAATCTATAANCANNNGAGGANTTACCAGGAACCNCGTGGTGAGGAGAT  
GCCANAGGCANAGAAGAGAANNAAGTATTCCAAACATGAGGGGATTCCAAAGANAGAAGA  
NGTCCCAAACAACATTTGCACAAACCTGATGAGGAGAGAGAATGTGGGGTGGGGATGGA  
TGATGACNACTGAANAAGAAAGCCAGGTCTAGGATAATCAGGTGGCCTTGACCTGCCCG  
GGCGGCCGNTCTAAAACTAGTCGGGATCCCCCGGG

Sequence 3810

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGCCGGTGCGGAG  
GTCAGGGACAAGATGGTGCCACCGGTGCAGGTCTCTCCGCTCATCAAGCT

Sequence 3811

ACACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAACTTTTAAACA  
TCCTCCAAAACTTATCCACTAGCTTCAGGCCCTCGCTGAGGAACAGGCCATTGCCGGTG  
GTCAGCTGGAGCTGGCTGTCTGGCTGGTTGAGGGTATGGAGGAGTTCCTGGAAGCCTTCA  
TGGATCTGAGCCTCCGGAATCTCCGTGAGGTTTGAAATTCAGGCCCTCCAGGATTTTCAT  
CGTGAGTGTGAGTCTTGGTCCCCAGGGAGAGCATTGCAAAGGCTGTAGCGATGCTCAGAT  
TCACTGTCCCAGGTGAGTGGTGGTGCCTGAAGCTGAGGAGACAGGGCCCTGTCTCGTCC  
GTATTTAAGCAGTGGATCCAGAGGGGCAACGGGGGAGGCTGCTGGTGAATATTAACCAAG  
GTCACCCCAAGTTATCGGAGGAGCAACAGGGG

Sequence 3812

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGANGTACGCGGGAGGCATTGAGG  
CAGCCAGCGCANGGGCTTNTGCTGAGGGGGCAGGCAGGAGCTTGAGGAAACCGCAGATAA  
NTTTTTTCTCTTTGAAAGATATAGATTAATACACCTACTTAAAAACATAGGCAATAAN  
GTTACTAAGATATTNCTTACCCGTTAAG

Sequence 3813

GGAGCTCCCCGCGGTGGCGGCCGAGGTACGACCACAGCTCACTGCATCCTCNACCTCCCA  
GGCTCAAGCGATCCTCCCACTTCAGCCTCTGAAGTCTCTCATATGGTGCCAAGAAATGG  
TGACAAATCTCACAAAGGACTAGGCTCANCAGGGCTGGAATATTCAGGGAAGGTGTAA  
AGAAAAAAGAATGAACTTGAGTTTGGCTTTTTGAAGAAGATGCATAGGACTCCCACAG  
GCAGAGTGAAATAAGGGGCATTTTAGATGGACAGACACACAGACAAAAGCAGAAATGTGG  
GTGGTGTGACTGGGGTTTGGTGAGGGGCTGCTGTGGCTTGGAATGGANGGGCTNCCACAA  
ATAATGGGAAATGGTAAATGAGGGCAAGGTAAGGTTGGACCTGGTGGCCATANGCTCAAG  
GTTTGCCAGCTTTATT

Sequence 3814

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTT  
TTTTTTTTTTTTTATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGNGGTTNAAAA  
NATTTTCACTTTATTATTAGCTTATAATATTATTCCAACANACTGNNTTAAAGGNNGG  
NTCNCTNACNCAAAACCCACAGGGGCGAAAAGGNTCCGGGCCCNATTGCAGGACGTGG  
CCTGTGCGGGCCAGGGTCGNTGACATGCNCCCTGGNAGCTCANACNCTGGTNCCCTNAANA  
NAGGCTGNAGGAATNGGACAAGACANATGCCNCCGGGACTTTTAAAGCTTT

Sequence 3815

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTT  
TTTTTTTTTTTATTTAGTTTTGTTTAGGAGTACACGTCCCTAGAAGCACATAGCTCCAGC  
AACAAAGCTAATCTGANAGTAATACCCAAGATGCCTCCTACCTTGCAAATTTCAAGGAAT  
TTCTCACTGGTGGTTTTTTCATTANGGATACTCAGTGAAAGTAGCATAAGGAACCTCAGTG  
GACCATGGGTTCCAGCGGGACANAAGAGACTGCTCCTCCGGACTCCCCAGTAGATCCTA  
AGGCCTTCTCCTTGCTCTTGTCCAGGGGACATCCCAGGGGAAGNGAACT

Sequence 3816

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGAGTCTAGTTC  
CTGGTTGCCGGCTGAAATAACCTGAATTCAAGCCAGGAAGAAGTAGCAATCTGTCTTCTG

Table 1

GATTAAACTGAAGATCAACCTACTTTCAACTTACTAAGAAAGGTATTAAGCGCCTTTCT  
GAGAGCCTTTCAANGGGGCTTCCTTAAGCACCGTTCACTCTGNCTNCTTTAAGTNTTATA  
TTTATGATCAAGATGAAAGGGAGGGATGTNTCACTGCACAGAGATTCTACAAGTGGATAT  
ATAAAGCTAATAATGTTTTAGNGAGCTCTTCTCTGGCAACTACTTTNCAAGTGNCTTTC  
AGCNTTCCACCTTTGAAGCACACGGTTAATAATGCACAATTTCTTTNTNTTCAGCCCA  
AAGAA

Sequence 3817

AGGTACTTCATTCCACATTCAATCAAAGCAAGTGCAACCAGCACAGGTGCCCTTCCCAAT  
CCTGCAACACAATGCACTGCAACACAGCAACCTGGCTCTTCACGAAATTTGGTTTTAAC  
AGGTTTAACCAATCATCTACTATCTGATTAGGGGGGTGGGAGCTCCATCATCAAATGGCC  
AATCTAGAACGTGGATCTCTCTTTTCAACTGGAGCTTTATCATATGTAGCCCCGCGTA  
TCAAGCCCTTATCGATACCCGTCCGACCTCGNAGGGGGGGCCCCGGTATCCAGCTT

Sequence 3818

CGTACTGNANCTATCCTGTCCACCTTGCGCGCCTGAACNTNAGGGCCGGACCGGCCGCG  
GTAAGCCCCATGCCCGCACGCCGGGGCATTATTTTTTGACCGCACGGCAAGCCGTTGCTG  
GACAAATGGTTTTTTCGAAACATTTTGCCTGTCAGNAAATTATCGTCCTACACTATTT  
AACAGAATCNGGCCGTGCCACACTGCGCGGCTCCCGCAAGAATATACGGCCGCTCTAGAA  
CTAGTA

Sequence 3819

GGCGCTTTTGGAGCTNCCNCGGTGGCCGGCCGCCGGGCANGTACTTNTTTTTTTTT  
NTNTTTTTTTTTTTTAAACGNCTCATCGAGTTTATTAGCCTCTACAGTTTTTAAATT  
TACTAAANCAGGGCCNAAAAGTACAGGTTTNNGTNNAGATTTTTTTGGGAGGCTCACAGG  
CAGCATGACATGACTTTATAAGGGAAAAAGGGCAATNCNANTGGGTTTTTTTAAANAAT  
TTTAANTGGAACTTGAACTTTTCTGGGCCTCCCAAACAAGGCCAGGGCTTGNGCTTGTN  
AGGGTAAAGCCCTNTTCCATCCAAGGTGGGAAGGGANCAACANGTCCCTCCAGTTTTANA  
CCAGGAGGAAAAAATTTANGGACCCCCAAAAAAGAATGTAAAGTTTNTCCCGNCGGTAAC  
CCTTNNGGCCACCGGCTTTTTTAGNAAACCTANGNTGGGGAATCCCCCCCCGGGGGCCTT  
GNTAAGGGGAAATTTTNGAATANTCCAAAGGCCTTTNTTNNGAATAACCCCGNACNN  
NAACCCCTTNTAGGGGGG

Sequence 3820

AGGTAAGTCTTTGAATGTGACTGTTTCCGTTGCCAAGCCAGGACAAGGATGCTGATATG  
CTAACTGGTGATGAGCAAGTATGGAAGGAAGTTCAAGAATCCCTGAAAAAATTGAAGAA  
CTGAAGGCACACTGGAAGTGGGAGCAAGTTTTTGGCCATNGNGCCAGGGCGATCATAA  
GCCAGCAATTTCTGAACGGCTTCCCGATATCAACATCTACCAGCTGAAGGTGCTCGACTG  
CGCCATGGATGCCTGCATCAACCTCGGCCTGTTNGGAGGAAGCTTGGTTTNTATGGTAC  
CTGCCCGGGGGCGGNCCTTTAGAAACCTTAGTGGGAATCCCCGGGGCTTGAAGAGAA  
ATTTTCGNTTTTNAAGCCTTANTCNGNATANCCTTCAACCCCTTGAAGGGGGGGGGGCC

Sequence 3821

CTTCTGCTGAGGGGGCAGGCGGAGCTTGAGGAAACCGCAGATAAGTTTTTCTCTTTGA  
AAGATAGAGATTAATACTACTTAAAAATATAGTCAATAGGTTACTAAGATATTGCT  
TAGCGTTNANTTTTTTAACCGTAATTTTTATTAGCTTAAAGATTTAAGAGAAAATATNG  
AAGGACTTAGAAAGAGTATCATGAGGAAGGAAAAAGATAAAAGGTTTCTAAACATTGACG  
GAGGTTGAGATGAAGCTTCTTCATGGAGTAAAAATGTATTTTAAAAGNAAATTGANA  
GAAAGNGACTACANGAGCCCCGAATTTAATACCAATTAGAAGGGGCACNTGCTTTTAG  
NATTAA

Sequence 3822

TCCNTTTGTGGCGGNCGACGTACGCGGGACCACTTCTCTGNGACACATTGCCTTNTGTT  
TTCTCCAGCATGCGCTTGCTCCAGCTCCTGTTTCAGGGCCAGCCCTGCCACCCTGCTCCTG



Table 1

GTTCTCTGCCTGCAGTTGGGGGCCAACAAAGCTCAGGACAACACTCGGAAGATCATAATA  
AAGAATTTTGACGTTTCCAANNTCAAGTACCGTCCAAAATGACNGAAGNTNACTGCAGTG  
CTTGCAGGTTCAAGCNAGAATTGAAAGAAATGCATGGGTGGGTAAAACTTACCTCATT  
GCAGCATCCCTCTACAAGGTGCATTTAACTATAAGTATACTGCCTGCCTATGTGACCGAC  
AATCCAAAACCTTCTACTGGGACTTTTTACACCAACAGAACTGTGCAAATTGCANGCCC  
GTCGTTGGATGTTTATTCGGGGAATTAGGGCATCTGCCCCTGAATGAATGGCTGGCTGT  
AATTCNCCCCAATTCAAAA

Sequence 3823

AGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
GGCCATCAATTTATTAAATAAACATNTNTAGCNGGTTTNAACAATTGTNTTGTNNTTG  
TNGTAAAAAGACTTNANAAAGANAAGGNGNGGTTTGCANNAATCCCTAAGTGGTTTTCA  
NCANACCCTGCNATTTTNNNGNANCCAAAAGGTTTTNCAAAAAGNTTTAAANTAAATC  
NNCAAAAGACTGTTTTGTANCCNCCNNTACNTTGCCCGGGGCGGGCCCGTTTTTAAAA  
AACNTAGTGGGATCCCNCCNGGGGCTTGCAGGGAATTCNNATTTTTTCAAANNTTTAT  
TTNGAATNCCCGTNCNGACCCNTCGGAGGGGG

Sequence 3824

AGCCNAAAAGGGCCAGCCACAAAGGGCCCGGNAACCCGGTAANAAAAGGGCCCGCCGT  
TTNCTAGGGCGTNTTGTTCCTAATAANGGCTTNTCTGGCCCCCNCCTTGACNGAA  
GNCCATTCCAANCAANANAAAAATCCGNAACCGGCCNTTCAAANGGTTACAAGAAAAG  
AGGGTTGGGGCCCGGAAAAAAACCCCTGNAACCAAGGGGGNAACNTTAAATTANAAAA  
AGGGAANTTAACCCCAAGGGGGCCCGGGTTTTTTTNCNCCCCCNCCTTNGGGGGAAAAA  
GNCCCTTTCNCCCCCTTCNAAATANNACCGGCCCTTCCTTNCNCCCCCTTGGTTTTNCNCC  
GGANACCCCTTGGTCCCGNTCNTTTTAACCCCGGGGGAANTAACCCCTTGGTT  
CCCCCGGCNCCTTTTTTTTCNTTACCCCTTTTTCGNGGGGGAAAAGNCCGGTTGGGG  
NCCGNCCTTTTTCTTT

Sequence 3825

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGATCGGAAATTTGAATT  
ACCTCTAGACCAGGATTTGTCACTCTCTTACTATTGACATTTTGGGTGAGATCATTTCTT  
TCATTCTTTCTTGGTTGAGGGGTTGATATTGTTGGTGTGTCTCATCCAAATCTCAAAT  
TATAGCTCCCATAGTTCCCATGTGTATGGGAGGGAACCCGGGNGGGAGGGTAAACTGAA  
AACATAAGCAAAGGTCTTTCCTTGCTCTCTCATGACAGGTGAATTTCTCATGGATATC  
TAAATGGTTTTATAAAGGGGGAGTTCCCTGCACACGCTCTCTCTTCCCCGTTGCCAT  
GAAAGATGTGACCTTTGCTCCTCCTNCCCATGAATTGTGAGGCTTTCCCAAGTTCACA  
AAGGGAAACTGGTGGAGTCCCATTAACCCCTTTTTTTCTTTGNTAAAAAATTTACCCC  
CA

Sequence 3826

AGACGTGTTTGGAGCNCCGCGCNCNGGNGGGGCGNCGAACCAGGGCNGGTNCNCGGNC  
TNCNTNANTNTNTNATNNTTATTTATNCCGTTTTACCTTTTnnnnnnnnnnnnnnnnnn  
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn  
nnGGNNCCNGGGGNNAAAANTTGGTNATCCGCTCACAATTTCCACACAACATAC

Sequence 3827

CGCGGTGGCGGCCGAGGTACCTTAAAGCAGAATCCATAGTTAGTCGGTGCTCCATGTTTT  
TTTTTGCCTGCCAGTGACACATAAATATCACTATTGCCAAATTCGCTGAAAACTGCAAA  
TGCCGCGGTTCTTGGAGGCATCACATTACCCGACTTCAAATATTACTTACAAAGGCCAT  
AGTCACCCAAACAGTAAAGTACCTGCCCC

Sequence 3828

CTACTTAGGGCAATTGGAGCTACCNCCCGGCGGGGCGNGCCGAAGNACTTTTTTTTTT  
TTTTTTTTTTTTGAGGGGGAGTCTTGCTGTCTCTCCAGGCTGGAGTGCAGGGCTGCTA  
TCTTGCTCACTGCAAGCTCCACCTCCTGGGTTCACACCATTCCTGTCTCAGCCTCCC

Table 1

GAGTAGCTGGGACTACAAAGGTGCCCGCCACCACCCCGACTAATTTTTGTATTTTAG  
TANANACGGGGTTTCACCATGTTAGCCAGGATGGNGTTGATCTCCTGACCTAATGATCTG  
CTGTGTTTCAGCCCTCCCAAGTGTCTGGGATTACAGGCGTGAGCCACCATGCCTGGCCTCTC  
ACATGGCCTTTTACTCCTTTGTGGTTGCTGCTCATCTTCAACTTTCCTTTCTAATTGT  
CAAAATGTTTTCTATTTCAGCT

Sequence 3829

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGGCAAGGTACGCGGGGAGGCATT  
GAGGCAGCCAGCGCAGGGGCTTCTGCTGAGGGGGCAGGCGGAGCTTGAGGAAACCGCAGA  
TAAGTTTTTTTCTCTTTGAAAGATAGAGATTAATAACAATACTTAAAAAATATAGTCAAT  
AGGTTACTAAGATATTGCTTANCCGTTAAGTTTTTTACCGTAANTTTAAATAGCTTTAAG  
ATTTTAAGNAGAAAAATTATGAAANACTTTANAANGAAGTAGGCATTGGANNGAAAGGGA  
AAAAGAATAAAAGGGTTTTCTAAAAACATGACGGAGGTTGAGATGAAGCTTCTTCATGGA  
GTAAANAAAAAAATAAAAGTACCTTCGCGCGCTCTAGAACTAGTGGGATCCCCCGG  
GCTGCAGGAATTCGANATTCGAAGCTTATCGATACCCGTCCGACCTTCGAGGGGGGGGGCC  
CCGGATACCCAGCTTTTTGTTTCCCTTTTT

Sequence 3830

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTA CTAGTGGCCATGTGGAGC  
TAGTGGCCACCACACTTGACACCACGGATGCAGAACTTTTCCATCACTGCAGAAAGCTCT  
GTTGAACAGAACTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCCGCATTANATCACTG  
GGGGTCTTAAGCAATTNTTCAAAGCGAACTTTGGTTTTTAATTTTGGCTNAACTCTAAG  
GTGGGAGGCATNTNTTCAGCTTTTATGCAAAGGGACTTGAAAAATGCAAAGCATTGAC  
TCAATCAGGGATCCTTTNTTCAGACATAATTAAGAAGGCTTTGACAGGTTGAANATTGAG  
NCCCCAGGTTCCCGCTACCTTGCCCGGGCGGCCGTTTTANAAGTAGNGGGATCCCCCGG  
GCTTGCAGGGAATTCNNATATCAAGCTTATCCGATNCCC GNACCTCGNGGGGGGGGG  
CCCGGTCCCCCAANCTTTTTGTTTTCC

Sequence 3831

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAGTAGTGGAACCCAC  
GCCCGGGAAAATCCATAGGATCATTTAGACCGCATTCAACACAGATACTCATGTAGCCC  
CGACGTTTCTTGTAAGGGAATTGATGTATTGCTTGAGGGGGTCGATCTCTGGTTCTAAG  
GTGTTTGTGTTGTTCCATCGTGACTCCCAGAAAATTATNNNANGGGCCAGACCCNATTG  
GCTCATGCCGTGAATCCCAGCCAGTTTTTCTAAAGTTTTAATCTGTCTCCTCCACTAGGC  
CATGAGCCCTAGGAGGAGATTGTCTATGAGGGTATCCCCTGTGCCTGGCACATGCATGC  
AAGTTATGATTTATGTTTGATGAATGAATGAATGAATGAATGAATGAATGGTGGA  
TGGGTCTTCTTGAGGGCTCTTAGAAAATAGGGGGTTGA

Sequence 3832

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGCTTCCTTTTCA  
GATTCCCTGTCTGCTCAATTAAAGATGTTTGAATCCAAAGGAAGTCAAGGAAGAAAAAGC  
ATGGAAAGGAAGAGAAGCTGATTCCCTACTGAAAATTCAAATTCATTACCATTCTAAGTTT  
NAT:AAAAGTTTGGGATCAAAACNACTTNNTTTTCTNTGCCCNNGGCTTNTNNTTAGGG  
GGGGGAGATTNTTAAAGGGCAAAATTANGGATTGGTGCTCANAAAATGGTTAATCATTGCTGT  
GTGCTAGCCAGGGCCAGCTGGTACCT

Sequence 3833

[illegible]

Table 1

CCTCGAGGGGGGGGCCCCGGTACCCAGCTTTTTGTTTCCCTTTTAA

Sequence 3834

AGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACAGGCCGATATTATCTTTACAAGCAT  
GCCTACTTTTATCCTCATTTAAACGATTTCCAGTTCAGGGCAGTNGTGACTCATCCGAA  
GAAAATGGAGATGACAGTTCAGAAGAGGAGGAGGAAGAAGAGGAGACTTCAAATGAAGGA  
GAAAAAATGAAGAATTNAANGAAGATGNANGACTTTGNGGGCTTGAGAATACCCACAC  
TTTTCTGCTACAGCACTGGGGCTTATGGGAGAGGGACGCCACCGCTGGGCACAGGGGTA  
TACAGGGTTAGCTTGCAATCCAGCTTCCCAAGAAGGCTGGGGATATAACAAACAAAGCT  
ACAAAAGGAAGAAATNTNAATTTNAAAAATAAANAAGGTTACCTCGGCCGCTCTA  
AGAAACTAGTGGGATCCCCCGGGG

Sequence 3835

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTATTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNTTTNGNG  
GGGGGNNNNNGNCCCTTTTTTNNNTAAAAANNNCNGNCCCCAAANNNTNAANTTTAAANAA  
AACCCNTTTNCCNGGNANAAAGGGNNANAAAAAANTTTTTAAAAANAAANATNTNCNNGNA  
AAAAATACAAAAACCCTGGCAAANGGGGGNTCNTATNAAAACNTTTNATTCCCCNGGCC  
TTTTTAAAAAANNNGGAGNCCCCCGGGNGNNGGNANNAATTTTANNNNAAAAANTTTT  
TTAAACCNTCNANCCNTTGNNGGGGG

Sequence 3836

[illegible]

Sequence 3837

CCGGGCGAGGTACCAAGCNGAAATCAGGACAGTCCCCTAAGCTACTCACTTACTGGGCNTCT  
ACCCGGGAATCCGGGGTCCCTGACCGATTACNCGGNATGNNGGTCCGGGACAGAAATTNA  
CTCTCACCATCAACAACCTGCAGGCTGAAGATGTGGNAAGTTATAACTGTCCAGCCAAT  
ATTTAATNANTAACCTTNNNTTNTCCACTNTNATGGNTCGGGNNGGGAACCCAAANGGTT  
GGGAGATTCAAAAAGCNTAAACTTGGNGGGGCTTGCACCCAATACCTTGTCTTTNCA  
NTNNTTTTCTCCCCGCTNCAANTCCTNTGAAATGGAANGCCAAGCTTTNTAAATAANT  
CCTTTGNGAAAAACCTTGGCCCCCTTCNTTGGTTTTGGGTGGGTTGGCCTCCTTGGCCNT  
GGGAAAATTNANAACCTTTTNCGTTAATTTCCNNCNAAGTAAAGTAAGGGGGCCCNANA  
NATGATTANNACCTTTTCNNNGGNCCCCGGNATTTCTTTAGGTAAACCTTATGGGNT  
GGGGTATTCNCCCCCCCC

Sequence 3838

CCGCGGTGGCGGCCGAGGTACTTTTTTTTCTTTTTTTTTTTTTTTTGTCTTTTTT  
ATTTCTTTTAATGCATCAACAACGTGGCCAGTGAAAGGAAACAAAACCTGGCAGTTTG  
TCCATTGAATATCAGACCTAGTTTCTTCTTAATTTCCACACTATTTCTCCCATATTCT  
TAACTTCTTGGCATCCTTCAATGCCTTACAGCTTNCCCAAGATGCAATAAAAGTCATTG  
TACCAGTATTTCTTACAATATAAGTTATATGCCAATGTTCAAGCATTTTTTTTTTTTTCAC  
AGCACTAGAGACCCCTGTTAAATAGGGGATATGAGTCAGAATGGCTTATTCACAGATGGGG  
TCCAGATTNAGTGCCTCCCGCCGTACCTTGCCCGGGCGGGCCGTTNTANAAC TAGTGGGATC  
CCCCGGGTGCGG

Sequence 3839

Table 1

CCGCGGTGGCGGCCGCCCGGGCAGGTACCTCAGAAGCAAACCCAGTTCCTGCACACAGAA  
 ACCCCATTGAGGCTCCTACTGCACTGAGAAGCACGTGTTCTCCATTTCCCTGGGGGAGAC  
 CATTGTATTGGGCAGTTTGAACAAAACACCATGGACTGGGAGGCTTACACAACAGAAAT  
 TTATTCTTGCTGTTCTAGAAGGCTGGGAAAGCTCAAGGTGCTGGCTTGCATATTCATT  
 TGAGGCCTCTTCTGATGTGCAGGCAGCTGCCTTCTGACTTGTGCTCACATTGGAGAGAGG  
 GAGTCAGCTTTGGTGTCTCTTCTTGAAGGACACTAACCCCATTCAGTGGGCCCCACCC  
 TCATGACCTAATCACCOCCAAAGGTCTGTCTCCAGNACATATCACATGGGGGCAAGAAG  
 CTTNCAATGGTACCTCGGGCCCCGCTCTAAGAAACCTAGNTGGGGATCCCCCGGGG

Sequence 3840

CCGCGGTGGCGGCCGAGGTACGCGGGGAAATCAGGTTTTTTTTTTAAAGTGAAACTTGA  
 TGATTTTTAAACAAGTAATTAATAAATGTCCAAACACCATGTGGGCCAAACATTTGTT  
 TGAGCCTGGGGGCCACCAAGTTTGGCACCCTGCTTACGTAGTTAACACCTGAGTATGT  
 ATACAGTCATATTTTTGGTTTNGGATATTGGNAGTGTTANATATACTTGGGGGGCGTTG  
 ATATTTGAAGTCATCTTTATCTCTCAGAGTTAAGCTTTATTGTAGAAGAAAAAATNTN  
 AANAAAAAANAGGTACCTGCCCGGGCGGCCCGCTNTAAACTAGTTGGATCCC  
 CCGGGCTTGAGGGGAATTTNNATATCAAGCTTTATCGATACCCGTCGACCTTCGAGGGGG  
 GGGGCCCGGTANCCCANCTTTTTTG

Sequence 3841

GGCAGGTACGACACCCCTCAAGAAGGTGGGCCCGAAGCTTTCCTGTCTTCCCTGACAGAG  
 ACCATAGAAAGGAAGTCCGATGCTGAAGGATGGGCACCGGCCANGGGAACAACAGAAGC  
 CGGNAGATCCGTNCTGGGAACCCCTTTCAGGCTCCATGGAAACATCTTACCTGGGTGCT  
 AGATGGATCAANACAGCATTGGGGGCCAGCCAACTTTCACCAGGAAGCCAAAAGGTGT  
 CTAAGTCCAACCTAANTTGAAAAAGGTGGGCCAAAGNTATNGGTGTGGAAGCCCAANGAT  
 ATGGTCTAAGTGACCNATTTGCCACATACCCCAAAATTTGGGTCAAAAAGTGTCTGAAG  
 CANACCAGCATTTAATTGCCAGNACTGGGGTCAACGAAAGCCANCTCAAATGGAATCA  
 ATTTATTGAAAGACCACCAAGGTTTGAAAAGTTCANGGGGACNTAAACACCCAAAGAAAG

0

Sequence 3842

CCGCGGTGGCGGCCGCCCGGGCAGGTACTGTGGATCTTGGCTCACTGCAGCCTCCACCTC  
 TTGGATTCAAGCAGTTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGAGCCACCATGTCCAG  
 CTGATTTTTGTATTTTAGTAAATGAGTTTTCACCATGTTGGCCAGGCTGGGTCTTTGAA  
 CTCCTGACCTCAAGTGAGCTGCCTACCTGGCCTCCCAAAGCTCTGGGATTATAGGTGTGA  
 GCCACTGTGCCAGGCCTGAGGTTGGGAGAAATTTGTCCATTTCTTTAGAACCAAAATTG  
 GCAACCAGAGAGTATTTGGGATGTTACACAAAATATTTAGTTTCCCTTTCTAGCCTAAAT  
 TGGGGTTGTTATAGCACCCGTCTCTCCATTTGAGAAAAATGGTTAGGAT

Sequence 3843

CGCGGTGGCTCGCCCGGGCAGGNACACCTGTTCTTCTCTGCTTGGCCACCAGCGGCCCT  
 CTGGACCGTCCAGGCCATGGATCCTAACGCTGCTTATGTGAACATGAGTAACCATCACCG  
 GGGCCTGGCTTCAGCCAACGTTTGACTTTNCTTCAGGCCTTGTATTANANACCCCTTA  
 NGTGGGCCCTTGAAAGTTCCCCCAAATAAAAGAATACAANTTTTTANAATTCCTTAN  
 CCCCTNGTTGGAAGCCAAATTCNTCTCCATTTGNGGCCCTTTTAAGACNNTAATTTGNC  
 TTGGTTACCCNTNGNNNGCCNAACCCCTTTGGNTNGNGGNCTCCAACCCAATCCATCCN  
 GGGGGGCCCCCCCCAAANNCTTTTANCTTTCNCAAGGNGGGGCTCCTTAGNGNGNTTTT  
 TTTNAAAAACNCCCTTCNNACCCCTTGGTANNAAGNGGATNTCNTTGGGAANTAACCT  
 TGNNAAATGAATCCCCATCCCNAAAGTNGNGGNNTTTTTTNCNCAANNCCTAACNCC  
 CTTGGGCCANCCCCANANCTTTTNTTTTTTNTCNAAAAAAGTTTNCANNNGNA  
 ACCAACCCCAAGGGGCTTTTATNGTANANTATTTGAACCCCACTTNGGGGGGTAA

A

Sequence 3844

Table 1

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTCACATCACAA  
TGTCATTTTGATATGGAGCGTTTTGTTATTNTTACAAGGCAGAATGGGGTGNAACAGTTG  
AATTAACCTTAGCAATCACGTGCTCANAGCTTTTGCTGTGAGTTGTGTGTGCCCTTAT  
AGGCCCTTTCCCCACAAGCTCTTGCTGAAAGAAGTTTGCCTTGNNTTGTNNNGNTGNT  
TTGTATTANCCANAGGATGTCAAAATTANTCTTCTCAAAGCTTTGAGTAGAGTAAGTGT  
GGGAATAAGCCANTATTTTTTTCTGTTTCTGTAACCTCAAATGAACGGGTTTTTTTCCCT  
TGNNTGCCACTTGNCTAACATGTCCTTAAGGTGTTAACCTGCCTCTGACCTGGCTTGC  
AATGCATAGGTGAGGAG

Sequence 3845

AGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACANCAAAACCCACCTGTGTAAAC  
ACACACAGCAAAGTGATGTAAGAAGTTTCCATATAAAGGGCTGCAGTATGGAGAGGTAAT  
GTGCAGGCTGTTTTGCGGCTGTAGGGGCCACCTTGCTGCAGCTCTCCACTGATATGGTAC  
CTGCCCG

Sequence 3846

GAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGCCAAAAAGAAGTCAGAAGGAGC  
CAAATCAGGACTGTAAGGTGGATGAATGCCTAATGATTTCCCATCAAAGCTCTCACAAAA  
TTGCCCTTGTTTGATGAGAGGAATAAGCAGAANCATTGTGATGGGGAAGGACTCTCTAAT  
GAAGCTTTCCAGGTGTTTTCTGCTAAAGCTTTGGCTTTCTCAAAACACTTTTCATAATA  
AGCAGATGTTGTTGTTCTTTGGCCCTCCAGAAAACCACTAGAAAAATTCTTTAACATT  
CCAAAAGACTATTGCCATGAGCTTTGTTCTTGACCAGTCCAGTTTGTCTTGACTAGACC  
GCTTCCACTTCTGGTAGCCATTGCTTTGATTGTGCTTTATCTTTAGGATCATACTGGTA  
AAGCCATGTTTTGTCTCTG

Sequence 3847

ATTGGAGCTCCCCGCGGTGGCAGCGGCCGCCGGGCAGGTACTGGAATGGCCAAGTGCGGA  
CTGCTTCAGCTGACCAGGTTCTTTAAACCGTAGTCATGCTTTCCCACTAACTCTTAAAT  
CCTTATGCTTAGAAAAATTGAGGATAAGGCTGGGCACAGTGGCTCAGGCCTGTAATCCAG  
CACTTTGGGAGACCAAGGCGGGTGGATCACAAGGTGAGGAGATCGAGACCATCCTGGCTA  
ACATGGCGAAACCCCGTCTNTACTAAAAATACAAAAAATAGCTGGGCGTGGTGGCGGGC  
GCCTGTANTCCAGCTACTCATGAGGCTGAGGCAGGAGGATCACTTGAACATGGGAGGCG  
GAGGTTGCAGTGAGCCAAGATGGCGCCACTGCACTCCAGCCTGGGTGATGGCCGTGAGAC  
TCCATGTCAAAAAAAA

Sequence 3848

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAAGGTACTTCCGNGCTT  
CTTCATTTCTTCGATAGCCATAAAATTTTCTAGCTCTCTATCACCATCCTTATTTATTNC  
TGGTTCCTGAGATCTTTTCTGCTGGCTGGCCATTTTCACTGCCTTTAAGCCTTTGTGACTC  
TTCCTCTGATGTCAGCTTTAAGNCTNGCTCTGGGTGCTGTNTTCAGAAGAGTATTTTGG  
CATNTGTTTTCTTNGTAGTCAGAACTAATTGCAAAATACTGTGATACTCTTCACTTTC  
GTTGTCAGGAACTGCTGATTTTCAAGGTGTTCTGCTCTTCTTTGAGGAATTAATCCATC  
ATNACCATTGCCAGCAGTGACACCATTAGTCAGGTTTTCTAGT

Sequence 3849

GGGCGAANTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTT  
TTTGGNCTCCCANGACCTCTTNCACNTTAAAAATGACATCCTAAANGGCTNTTATTTA  
TATGGATATNTACTGATATTGACCATATTCAAATTNAAAACAAANGNTTGAAATATTCA  
CTAATTCTTTAAAAATAGCTCATTNAAAATATGAAAAAGATACTTTTACAAATTNANTG  
AGAATATCACTGNTTNATAATTTTGCAATCNCCTTAATGCCTGGCTTANATGAAAACNGC  
TGGAGTCCCATANCNGTTTCTGCATTAAANTTGNTGNTATATGANTTTTNTGCTTAAAC  
CTATGAGGAA

Sequence 3850

CCTATCATACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACAT

Table 1

CCTGTGAAATCCAGGTGGAGGCTCCCAAACCTCAGTTCTTGACTTCTATGCACTTGCAGG  
CTCAACACCACATGAAAGCTGCCAAGGCCTGGGGCTTGAACCTCTGAACGCATGGCCTG  
AGTTTATACTGGCCCTTTTCAGTCATGGCTGGAGCAGCTGGGATGCAGGGCACCACCTTT  
CTGGA CTGCACACACCATGGGGACCCCTTGGCCCGGCCACAAAACCATGTTTTCTCCTA  
GGCCTTTGAGCCTGTGATGGGAGGGGCTGCCATGAAGACCTGTGACATGTCCTGGAGACA  
TTTTCCCCATTGTCTAGGGGATTAACATTCAGCTCCTCATTACTTTTGCAAATTTCTGCA  
TCCGGCTTGAATTTCTCCTCAGAAAATGGGATTTTCTTTTCTT

Sequence 3851

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTGAGGGCTTCATTGCCAGAAC  
ACATTATATACAGGATGTGAGAGCTACCAGTGTGCTGCTGGGAGAAAATGCTGCAAAATT  
CATCTTTTGGAGGGTGGGGGGAAAACCCAAAAACAACAACAAAAAACTCTCTTACAGAA  
TTTTCTTAACATTAAAAAACTTGTGATTTTTTCAAAGGCNCATTTGATACTCANAA  
TTGCTNAAAGTATATTTAAAGACATCTAGCCTTCCATATGTAAAAATATTTTAGATAAA  
GACAGTTACAGGACTCAGAATAATATATTGGGTGATTCACTGTATCCTCCATTTTACAT  
TTAAAGAAATTCANAATACGTGATTAAATTTTTTTTTT

Sequence 3852

CGACTTGGAGCTCCTTCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGATCAAACAAGTC  
CTCCAAAAGTGTTGAAATTGGGCATCAAAGGCCAAAAAACTCCTGAGGGATTGCAAGAAT  
CAGCTAATGTGAAATCTCAGGAACCTTTCAGCAGTGGGTGGACTGTGAGGCTGCCTGAGT  
TCCAGTTTTCTTCTCAGAACAAAGATATCCCGATCGGGAAGATTGCACTACAGAAAAAG  
GCAAAAAGACCACTGTAGAAACAGAAGATTCTTCTGTAGAGAACCCTGAACAGGATCTGT  
TTGTAGAACAAAAAAAAAAAAAAAAAAAAAGTACCT

Sequence 3853

GCGGTGGCGGCCCGGGGGCCATTGAGACTGCCATGGAAGACTTGAAAGGTCACGTAGCTGA  
NACTTCTGGAGAGACCATTCAAGGCTTCTGGCTCTTGACAAAGATAGACCACTGGAACAA  
TGAGAAGGAGAGAATTCTACTGGTCACAGACAAGACTCTCTTGATCTGCAAATACGACTT  
CATCATGCTGAGTTGTGTGCAGCTGCAGCGGATTCTCTGAGCGCTGTCTATCGCATCTG  
CCTGGGCAAGTTCACCTTCCCTGGGATGTCCCTGGACAAGAGACAAGGAGAAGGCCTTAG  
GATCTACTGGGGGAGTCCGGAGGAGCAGTCTCTTCTGTCCCGCTGGAACCCATGGTCCAC  
TGAAGTTCCTTATGCTACTTTCACTGAGCATCCTATGAAATACACCAGTGAGAAATTCCT  
TGAATTTGCAAGTTGTCTGGGTTTCATGTCTA

Sequence 3854

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGGTGAATTTCTT  
GCACAAGTTGCGGCAGCTGCCCTGAGCGATACATGATGAACAGCGTCCTGGAAAACCTTAC  
CATCCTCCAGGTGGTGACAAACAGAGACACCCAGGAACCTGCTGCTCTGCAACCGCCTATGT  
CTTCGAGGTCTCCACCAGCGAGCGTGGGGCCAGCATCACATTTACCGCCTGGTCAGGGA  
CTGAAGGGGGACCCCAAACTGGCTCACCCCCAGAACACCCTCCTCCAGGGAGGGTCC  
TCCAGCTCACCTCATGCTTCTTATTTGGGGAGAGGGCTGTGATGTAAAGGGGTTGACCTC  
AGAGGCCTAAGCAACTGGGGCCATCCCCCATTAGAGGGGGCCCCAAAACCTTGGTTGGA  
GAGCTGAACAGGCTGGGACTGAGGAAAGGATAAACCCCGATATTGGGATCTC

Sequence 3855

AGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGGNTTTTTCTTTTTCTTTGTTN  
TATNGTGCCGGTTTTTNGGTNTTLAGGGGGNTNTTNCNGCCNACN:NNAGAATTNAGCC  
AACGCCANATGCCCTTGCTCCCCACAATTTGGAACATTCCTTTTGATTTGACCCAAGTC  
AAGGGAAANAGATGGGGAGGAGAAAGTTGAAACANGCAACAATAAACCCCAACNTAAAA  
CAAAAAGAGTTAAGCAAAACAATAATGCNCAATTCATNTTGATTACTGAGTGTTCTAA  
TGGAAGGAGAAATTAAGCAGCTGGNGGGTCATCTTAAATTTTANTTCATTTAAGGG  
AAAAATTTTAAGACAACTNTAATTCAGCTACTTACCTTGAAATAAAG

Sequence 3856

Table 1

TTTGAATCCGGCGAATTGTTTCTGGGCNANGGCCGCGGCCGCCCGGGCAGGTACTTCGG  
GATTATTTCTTTGAAAAAAGAGNTTTTATGTNTCTGATTGGTGAGTGGAAGAGTTCAA  
CATCGCCAGGTGTGGTGGCTCATGCCTGTAATCCAGCACTTTGGGAGATTGAGGTGAGT  
GGATCACTTGAGGTCAGGAGTTTGAGACCAGCCTGGCCAACATGGTGAAACCTGTNTCT  
ACCAAAAAACAAAAATTAGCCAGGCGTAGTGGCATGTGCCTGTAATCCCAGCTATTCCG  
GAGGCTAAGGCATGAGAATCACTTGAATCTGGGAGCGGAAGGTTGCCGGTGAGCAGAGAT  
TGCACCTGGGTTTGACAGGAGTTGAGACCTTGTCCTCCAAAAAAGTNC  
CTCGGCCGCTCTGAAAACTAGTTGGATCCCCCGGGGCT

Sequence 3857

CCGCGGTGGCGGCCGCCGGGCAGGTACCTTGAAGTTCAGATGAGATTTGCGACTTTTGA  
GTTGATGCTGAAACAGCTTGAGATTTTTGGGGACTACTGAGAGATGATAATTGTA:TTGTG  
CAATATGAGAAGGACATGAGATTTGGTGGGCATAGGTGTGAAATGACATTGTTGGATGT  
GTTTACCCTCCAAATCTCTTGTTGAATGTGATCTTAAACGTTGGTGGTGGGCCTAGTGGA  
AGGTGTTGAATCATGGGGGTGGACTCTTCATAATTTGCTTAGCTCCATCCCCCTTGGTGAT  
GAGCAAGTCCTTGCTCTGTTGTGTACATGAGAAGCTGGTTGTTTAAACAGCCTGCCGN  
TGTTTCCCACCTCTTGCTATTCAATTTCTCTTGACACCGTTGATACACTTGGCNCCTC  
AGTTT

Sequence 3858

CCGCGGACTTTGTNCGCGGGGGTTGATGGAAGGAAGAACTTGNGTGCTTAGACCTGACGC  
TGGGAGGAGATACTGTCACCTAGGTTACTTGTAGGACCCTATACGGCAACCTCCTTTGCC  
AGGAACT

Sequence 3859

ATAGGGCTTTTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATCTGCATGCCATACTTAAG  
CAATCTAATTTTNGGTCACCCAGCACGTCTACTCTGCCCTTCTTCTGCACAGAGCATTT  
TCAGGTCTCGGGGCCCTCCCGCTTTGTTAGGCTTAAAGCAGAATCCATAGTTAGTCGGTG  
CTCCATGTTTTTTTTTGCCTGCCAGTGACACATAAATATCACTATTGCCAAATTCGCTGA  
AAAAC TGCAAATGCCGCGGTTCAAGTCTTCATGGCTGGGGAGGCCTCACAATCACAGCAN  
AAGGTGAAAGGCACATCTCACATGGCAGTAGACAAGAGAACTTGTGCAGGGAACTCCCC  
TGGAGGCATCACATTACCCGACTTCAAAC TATTACTTCCCCGCGTACCTGCCCGGGGCGG  
CCGCTCTAAGAACTAAGTGGGAT

Sequence 3860

[illegible]

Sequence 3861

[illegible]

Sequence 3862

AGGTACTTTTTTTTTTTTTTTTNGGGGGGAAGCCTTGTGGTAACCACAAAGCAAAA

Table 1

ACTTACAACAGATACACTAAAAATAAAAAAGGGACAAATTAAAAATATATATTACCTGAGAA  
AATTGCTTAAGCACAAAGGAGGATATTAAAAAAAAGAGAGAGGAAAAGAGAAGACATTA  
AGAAAGANGGAGAGAAGAGAGAAGTAAGAAAAACAAGTAGAAAGCAAGTAACAAAATGGC  
AGTAGTTAGTTGTTACCTGTTAAAAATAACATTGAATATAAATAGACCGAATTCCTCAAT  
AAAACATATACAGTGGTTGAATGAATTTAAAGCAAGACTCAACTATATGCTGTCAACAA  
AAACTCACTTTACCTATAAAGAGTACATAGACTAAAAGTAAAGAGATGGAAAAACATAT  
TCAATGCAAAATGAAAAACAAAAAGGAGCAGAAGTGTTTACTATTTCAGATGAAGTAG  
ACTTTAAGCTAAAAACTATAAAAGGAGACAAAAGAGNCACTGNATAATGATATTATTAA  
TGATCATATNTAATGATTATAAAATAAATTTTATGTNTAAAAAATTT

Sequence 3863

CCGCGGTGGCGGCCGAGGTA CTTTGGCCTCTCTGGGATAGAAGTTATTCAGCAGGCACAC  
AACAGAGGCGAGTTCCAGATTTCAACTGCNTCATCAGATGGNNGGGAAGATGAAGACAGAT  
GGTGAGCGCCNCAGGNTCGTNTTGATTTTCCACCTTGGNCCCTTGGCCCNAAACCGTTGGGG  
GGGGNAGGNATAAATATTTGGNGACAGTNATATGGNTGNCNCATCTTTCAGCCTTGCAG  
GCTGGCTGATGGGGGAG

Sequence 3864

TACGACTCACTATAGGGCCGAAATTGGAGCTCCACCGCGGTGGCGGCCCGAGGTACTTT  
TTTTTTTTTTTTTTGGGGGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNCCTCCGN  
NAAAAAAAAAANCCNNTCNNNNNNNAAANGGGGGGGGAAAAAAAAAANAAANNNNGG  
GGNNGGGGCCACCCCCCCCCCCCCCTNAAANCCCCCNNGAAGGNNAANNAAAAAA  
CCCTTANGCCAAAAANNANNGCCCNANAACCCCCCCCCCNCNNAAAAA  
AAAAANCCCCCCCCCCCCCNAAAAAACNAAAAAANCTNAACANCCCCCCCCCCCCCNNGG  
GGNCCCCCCCCNCCCCNNNTTTTNCCTCCCNNAANAAGGAAAAAAACCCCCCCCCCN  
AAAAANANAAAAANNCNCCCCCNANAAAAANNNNNCCCCCNAAAAANCCNNAAAA  
AANANNNCCCNAAANAAAAAANAAAAANCCCCCGNCCCCCNANNGNCCCCCCCCCCC  
CCCAANCCCCCNCCNCCNCCNCCCCCNNNNCNAAAAAAAAANCCNCCCCCCCCCCCN  
AAAAA

Sequence 3865

CCGGGCGAGGTACGTTTTTTTTTTTTTTTTTTTTTTTTTTGAATTTAAAAAATGTTCTTT  
AANACCCCTCCTTAACGGTTGATGGATTTAGCAAGTAGCAATATAANATGTTCGGATAAA  
TTTAAATTTACGTAACAATACTTTTTCCCTGTAAGCATGTCCTAAATATTGCATGGGGC  
ATGATTATAATAAAAAAGTTATTATTATATGAAATTCAAATTTATCTGGAATCCCTGTC  
CTTTATCTACTTTTGTTTTATGATGATTTTTATGATGATTTAAACAAAAGTAGAGAACT  
AAAAATTTATTTAGTACTTCCTATTGATAAAAAATAAAATTAGATGTTAATTATAGAAAG  
TTCACAAAGCTAAAAATTTANAATAAATTTGAATGGTCAAACCTCAATACCTGTTTTATT  
GTGAATTTTCAGCATTTACCGCTTAATTTTCATTGATCTTTTTGAGACATCCTATATATG  
TTCAGTTCTCTGCAATTTCTATTTCAATTTCTGTTCTGCAAACCTTTGATCTTGCTTTTAC  
CAAATTCATTTTTTTCT

Sequence 3866

TCTCATGGCATCAITCAAGGTCATCCCTAAATTTTAACACTTTCGATGCCATATACGT  
TGTAACCTTCCTTATAAGTTGCAAAATTCGTGAATTCGCGAGGAAGATGGGTAAATAT  
TCTGTGCATTCTTTGCCACCTTCATTGTTTTCGCCTCGGCCCTTGACTTGTAACAGAACT  
CAATCAAAGCCACCAGCATTGCCAAACCAAGGCCCCCGGCAAGGATGTAGAATACTCCAG  
CAACGTTGCTCAGACTGAGGGCACTGGTCTTTTCTAAAGAATGTATATGAGAAGAGGTT  
ATTAGGAAGGCAAACTGGTGAATAGAAAGAACAGCAATGTCACATAGCATTATCACGGG  
AACAACTAGTCACACAGAAATGCAATTTGAGAAACAATGGATTTTCTTTAGACC  
CGCGTACCTGCCCCGGCGGCCGCTCGA

Sequence 3867



Table 1

CCGGGCAGGTACAAAGGAACCGAGGGGGGACCACCTCTGAGATGTCCTTGACTTTGTCAT  
 AGCCTGGGGCATATTGAGCATCTCTCTCACAGCTGCCTTTCTTATCCCCATTCTTGATGT  
 AGACCTCCTTCCGAGTCAGCTTTTTCTCCTCCTCAGACACAAACAGAGCTTTGATATCCT  
 GTGCAGGGAGCAGCTCTTCTCTGGACGAATAGACTGCGTCACTTCAGCTGCTCCACCA  
 CTGTCATCTCCCCATTGCCTTTGTCACTCAGTAGATGTCCCCTAAGCCCTTCTAGAGCTA  
 GGTCTGGGGCAGGCATCATCTCTTCTATTGCACCTCCCTCTCATGCCCCACTTGTCTC  
 TTGGGATCTCATCCTTATCCTCTTGCCAAGTATGTCTTACTTTGTTGCTGGCAAGTGSTA  
 GTTGGAGGAAGCCTCAAAGCTCGAGTTGTTCCCTCNGTGCAGGGGAGACAAATGGGCCTA  
 T

## Sequence 3868

CGGCCGCCCCGGGCAGGTACCTGCCATCCAATACGGTCATTAGATTGGGTCATCTTGATTA  
 GATTAGATTAGATTAGATTGTCAACAGATTGGGCCATCCTTACTTTATGATAGGCATCAT  
 TTTAGTGTGTTACAATAGTAACAGTATGCAAAGCAGCATTAGAGAGCCGAAAGATAGTC  
 TGAAGTCATTCAANAAGTGGTTTGAGGTTTCTGTTTTTGGTGGTTTTGTTNGNTTTTT  
 NTTTTACACCTTAAGGGAGGATTTAATTTGCTCCCAACTGATTGTCACCTTAAATGAAAA  
 TTTANNAANGAATAAAANGACNTACTTCTCANCTGCAAATATTATGGAGAATTGGGGCAC  
 CCACAGGAATGAANAGAGAAAGCA

## Sequence 3869

AGGTACCACTCCACCTATATCCCTACCTTTGCATGTCTGTCCAACCTCAAAGTCCAGGTC  
 TATACACACGGGTAAGACTAGAGCAGTTCAAGTTTCAGAAAATGAGAAAGAGGAACTGAG  
 TTGTGCTGAACCCATACAAAATAAACACATTCTTTGTATAGATTCTTGGAACCTCGAGAG  
 GAATTCACCTAACTCATAGGTATTTGATGGTATGAATCCATGGCTGGGCTCGGCTTTTAA  
 AAAGCCTTATCTGGGATTCTTCTATGGAACCAAGTTCATCAAAGCCCATTTAAAGCC  
 TACATTAACCAAAATTTCTTGTGCTGCATTGTATACAAATAATGATGTCATGATCAAATAA  
 TCAGATGCCATTATCAAGTGGAATTACAAAATGGTATACCCACTCCAAAAAAAAAAAAAA  
 AGCTAAATCTCAGTAGAACATTGTGACTTCATGAGCCCTCCACAGCCTTGGAGCTGAGG  
 AGGGAGCACTGGTGAGCAGTAGGTTGAAGAGAAAACCTTGGCGCTTAATAATCTATCCATG  
 TTTTTTCATCTAAAAGAGCCTTCTTTTTGGATTACCTTATTCAATTTCCATCAAGGAAAT  
 TGTTAGTTCCA

## Sequence 3870

CCGGGCAGGTACGCGGGTCCACGCGGTCTCTGGGCTGGTTGAGCTGCGCCGCTGCAGG  
 TAGTGCTGAGTTGCTCCAGTGCCACTGGGTTAGGGTCTCCACAACCGAGCTGGTCTCAGC  
 AAGTGGTGTCCATACATGGGGCTCGAACCTGGGTTGAAGGGTCGCCAGAGCGACGGTTGG  
 AGAACGTGGAACCTAAGCTGGAGGACACCTGAGTACCT

## Sequence 3871

CCGGGCAGGTACGCGGGGAGGTCACACAGGAAAGAAGCAGACCACGAAATGAACCTCGGC  
 TGTACCTGCGGTGGGCGCACTAGAGGTCTTTTGAACCTCTCGGCTACCGTCGCGCGGT  
 TCTCGCTGTGCACTCTTATTCTGCGCCTGCGCGCGGTACAGCACGGTTCTTTTTCCTT  
 TAGTCAGGAAGGACGTTGGTGTGAGGTTAGCATACGTATCAAGGACAGTAACTACCATG  
 GCTCCCGAAGTTTTGCCAAAACCTCGGATGCGTGCCCTTCTGGCCAGGCGTCTGCGAAAT  
 CATATGGCTGTAGCATTCTGTCTATCCCTGGGGGTTGCAGCTTTGTATAAGTTTCGTGTG  
 GCTGATCAAAGAAAGAAGGCATACGCAGATTTCTACAGAACTACGATGTCATGAAAGAT  
 TTTGAGGAGATGAGGAAGGCTGGTATCTTTCAGAGTGTAAAGTAATCTTGAATATAAAG  
 AATTTCTTCAGGTTGAATTACCTAGAAGTTTGTCACTGACTTGTGTTCCGAACATATGAC  
 ACATGAATATGTGGGCTAAGAAATAGTTCTCTTGATAAAATAACAATTACCAAAAAANA  
 NNNNNNNNNNNNAAAAAAAG

## Sequence 3872

AGGTACGCGGGTATACATGAAACCCCCAGCACACGAAGAGGCCAAGGCACCTTCCAGAGG  
 CTTTGTGGTGCGGGACGCACCCTGGACCGCCAGCAGCAGTGAGAAGGCTCCTGACATGAG

Table 1

CAGCTCTGAGGAATTTCCAGCTTTGGGGCTCAGGTGGCTCCCAAGACCCTCCCTTGGGG  
CCCCAAACGATAATGATCAAAAAGAACAGAACCCCTCTCCAGCCTGCTGACCCAAACCCAA  
CCACACAATGGTTTGTCTCAATCTGACCCAGCGGCTGGACCCTCCGTAAATTGTTGACGC  
TCTTCCCCCTTCCCGAGGTCCCGCAGGGAGCCTAGCGCCTGGCTGTGTGTGCGGCCGAGG  
TACCTGAATGAGCCTGGCCTGGTGTCTGTCTCCAGACTCGACACAGCCCAGAAAGAAAC  
AGGTGAACACACTCCTGAGAGCCGAAACTGGACTCTTGCTGATGGACTCATGGCAATACT  
CCAGCCAAAGGCTGCTCCGAGTCCTAGAAGGGCTCGGAACTGTCTGGGTAAGCCTGTGC  
ACACAGTAGGGACAGAGAGGGGTAGTGTCTCTTCACAGCACTAAGCATGTTGTTGCC  
CACATG

Sequence 3873

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAAGGTTGAATGCAGGG  
TTTTATTGAGTGGTGGAGGTGGTTCTCTGAAGGATGGATGCAAAGCTGGAAGCGGGGATG  
GCACGGGAAGATAATCTTCTGCTGGGTGGCCAAACCTNTCCGACCACCCTCGGCTGAAC  
TCCTNTCGGCGTTCAAATGTTCTCTCTCTCTCTCTCTCTCTGCTGNATCGTTTACCATTCA  
TCTGCTTGTCTGGGATGGTGAANACAACCTGTTTGTCTATTCTAAACGACACGGAATANAG  
GCGTCTCCTCATCTGCTCATCTGCTTCTGGAGCTGCTTGGCAATAGGTGATTGTCTCGCC  
GCTCAGCTATAGGCGATGGTCTCACTACTCGGTGATAGGCGATTGTCCCATCTAGGTGCG  
CAAATGTGTCTGGAATTGGTGGGTCTTCTGCTCACTGACTTCAAN

Sequence 3874

CCGGGCAGGTACCAAAAAGACTCTCAAAAACCAATACTCCACGGGCAAGGGAATAGCCA  
AGTTTGTGCGGTTTCCAATGAATGACATCAGCCCTGTGTAGGTCTCAATCAAATGGGT  
TCAGTTAACACCATCAGTTTCTTCTCTTCCAGATCCAGTTGAATTCTTGTGGGCATT  
TGGATAGCTGGAACAAGCTTAGACATGAACCCAGACAACCTTGCAAATTTCAAGGAATTT  
TCACTGGTGTATTTATAGGATGCTCAGTGAAGTAGCATAAGGAACCTCAGTGGACCAT  
GGGTTCCAGCGGGACAGAAGAGACTGCTCCTCCGACTCCCCAGTAGATCCTAAGGCCT  
TCTCCTTGTCTCTTGTCCAGGGATATCCAGGGAAGGTGAACCTTGCCAGGCAGATGCGA  
TAGACAGCGCTCAGAGGAATCCGCTGCAGCTGCACACAACCTCAGCATGATGAAGTCGTAT  
TTGCAGATCAAGAGAGTCTTGTCTGTGACCAAGTAGAATTCTCTCCTTCTCATTGTTCCAG  
TGGTCTATCTTGTCAAGAGCCAGAAGCCTTGAATGGTCTCTCCAGAAGTCTCAGCTACN  
TGACCTTTCAAGTCTTC

Sequence 3875

AGGTACACCGTGTTTCTGTTGTGTTCTGTGGTGGTTTGCTCCTCACATGTGAGCATTCAC  
CGTGGCCCTGTGTTTTTCCACCACACCTCTGCCTGGTGGCATCCTACTGGATGTCTCAGC  
CGAGCCACTCTGTTCTGAAGATGCCCTTGTCTCCACCCCTTTGCTTTGGGCTCTGAGCT  
TCTTCTGCCTTTTATCTCTGTAGGATGAAGCCCCACCCGCCCTTCAGGATGCCAGCCTTG  
GCAACATTGTGAGACCCTGTTTCTACAAAACTAAACAAGTGTAGTGGTGCACGCCTGTA  
TTCCCAGCTACTTGGGAGGCTGAGATGGGAAGATCACTTGAGCCTGGGAGGTTGAGGCTG  
CATTGAGCTGAGATCAAGCCACGGCACTCCAGCCTGGGAGACAGAGCGAAACCCCATCTC  
AAAAAACAAGAAAGTGGATGCGTGCTGCTCCTGCCATTGGATCATCGCAGCATTTTTT  
TTTTCTCTGATATGCGCCTTTTTCTCATCGTGGGGGCTCATGTTTTCGTAATTCCTCT  
CACTACTAGATTGTGAGCTGTGTGAAGGAAGGTTATAGTTGAGTTGTATGTACCTGCCC  
GGGCGGCCGG

Sequence 3876

CCGGGCAGGTACACACACATCCTTCTGTGAAACAGTCTCACGGAGACTCTCAGAATCCCA  
AGAATTTTCTTCAACGTTCTTTTGTGTTTGAATTCTGAAGGGAACATCTGATCTGCTCTCAA  
TGTTTGTTCATTCTTCAATTCCAAGGCTTTATTTGGAACAGACTTTTGCATTTCAATGGC  
AGGCTCGAAGGCAGATGGCTTCTCGGGAGGCTCTGCTTTGAAAGTTTGCATGTCCATCAA  
TTCTAAGGCTTTAGTTGGAATAGAACTTTTATTCTGCAGGGAGCCTTCAGAAAACCATC  
ATTATCAGGAGACTCTTCTAATTTTCCATTTATTTTATCTATTTCTTTTGTATGTGTAGC

Table 1

CTTGGGTAAACACACATCCTTCTGTGAAACAGTCTCACAGAGACTCTCAGAATCCCAAGA  
ACTTTCTTCATAGTCCTTTTGTGGATTCTGATGGGGAGTATCTCATCTGCTCTCAATG  
TTTTGNTCATTCTTCAATCCAAGGCTTTATTTGGAACAGACTTTTGCATTTCAATGGCA  
GGCTCCGAAGGCAGATGGCTTCTCCCCGCGTACCTCGGCCGCTCTAGAAGTCTAGTGGGATC

0

## Sequence 3877

AGGTACGCGGGGGAGGTGGATTTGAGAGATACCTCCCTCCTTCTGCTCAGCTGCCTTGC  
AGTAATTAACCTTTCTCTGCTGCAACACCCCTACTGTTCTCCGTGTATTGGCTTTTCT  
GGGCAGCAGGAAGGAAAAGCTGATGCGATGCTCTCAGTGCCGCGTCGCCAAATACTGTAG  
TGCTAAGTGTCAGAAAAAGCTTGCCAGACCACAAGCGGGAATGCAATGCCTTAAAAG  
CTGCAAACCCAGATATCTCCAGACTCCGTTCCGACTTCTTGGCAGAGTTGCTTCAAAC  
TATGGATGGAGCACCTTCAGAATCAGAGAAGCTTTACTCATTTTATGATCTGGAGTCAAA  
TATTAACAACTGACTGAAGATAAGAAAGAGGGCCTCAGGCAACTCGTAATGACATTTCA  
ACATTTTCATGAGAGAAGAAATACAGGATGCCTCTCAGCTGCCACCTGCCTTTGACCTTTT  
TGAAGCCTTTGTAAAAGTGATCTGCAACTCTTTCACCATCTGTAATNGCGGAGATGCAGG  
AAGTTGGTGTTGGCCTATATCCAGTATCTCTTTACTCAATCACAGCTGNGACCCCAACT  
GTTCTG

## Sequence 3878

AGGTACGCGGGCAGGCTGAGACAGTCCTCATATCCTCTTGAGCCAACTGTTTGGGTCTC  
GTTGCTTCATGGTATGGTCTGGATTTGTGGGAATGGCTTTGCGTGAGAAAGGGGAGGAGA  
GTGGTTACTGCCCTCAGCCGGCTTTGAGGACAGAGCCTGTCCCTCTCATGACAACTCAGT  
GTTGAAGCCCAGTGTCTCAGCTTCATGTCCAGTGGATGGCAGAACTTCATGGGGTAGTG  
GCCTCTCAAAGGCTGGGCGCATCCCAAGACAGCCAGCAGGTTGTCTCTGGAACGACACG  
AGTTAAGCTCTCGGCTTCTCTGCTGAGGGTGCACCCCTTTCTCTAGATGGTAGTTGTAC  
GTTATCTTTGAAACTCTTGAGCTGCTCCTGAGGAGGCCCTCTTTCCAGTAGGAAGTTA  
GATGGGGGTTCTCAGAAAGTGGCTGATTGGAAGGGGACAAGCTTCGTTTCAAGGGGTCTG  
CCGTTCCATCCTGGTTTANAGAAGGCCGAGCGTGGCTTTCTCTAGCCTTGTCATGTCTC  
CCTGCCTGTNAATCACACCTTTCTCCAGAGGAGGAAAATTATCTCCCCCTGCAAAGCC  
CGGT

## Sequence 3879

CAATTGGAGCCTCCCCGCGGTGGCGGCCGAGGTACNCGGGTCTACATGAAACCCCCAGCN  
CACAAAGAGGCCAAGGCACCTTCCAGAGGCTTTGTGGTGCGGGACGCACCCTGGACCGCC  
AGCAAGCANGTGAGAAGGCT

## Sequence 3880

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTNTGCCCNATTGCATATTTTTATAT  
AACTGTCTTCATANATTCTTCTCTGCTTAAAAATTCTGCTGTCCATGCTCTGTATT  
GCATTTTACATTTATTGNATACTTCAGCTCCAAAATTTGTTTGATTCTTAAATAATTC  
AACTTTTCTTGTCAGGTTTCTACTATTGGGTGTTCAATTTCTGATTTCAATTGATT  
TCTCTGTTTTNATTAAAGCTCAATAAGATTTCTAAAACAAATATTTAAATCTTTAT  
CANATCATTTATATATCTCATTTCTTTAGGATCAGCTACCANAAGATTACTATGTTCTT  
TTGGNGGNATATCCCATTTGGGTTTATATACTTCTTATTGNATTATACTGATGNCNGCAT  
ATTTGANGGAACAGTCACCTCTTGACAGCTTTATGGGTAGTTTCATTGGANAAATATCT  
TTT

## Sequence 3881

CCGCGGTGGCGGCCGAGGTACACCCTGAAGCAGGTAGTGAAGCTGGCAGTTGGCCACTGG  
TTCCCACAGAAAATTGCTCTAGTGATGCTAGCAAAATCCCAAATTTGGGGTTCAATCCAGG  
AGGGTTCTGGCTTCATAAAGGAAATAATTCAAGAGCAAGCCAAGAGTGAAAGTGAAGG  
CAAAGCAAGTTTATGAGAGCAAGAGAACAGGAAAATGGCTGCTCCACAGACAGAGCAGGG  
CTACTCCACAGGCAAAGTAGCACCCGTGGATTGTTGGCTAGCTATATTTATAGCTACTCC

Table 1

TTAATTATGTGCTAAATAAGAGGTCGGTTATTTCATGAACTTTCTAGAAAAAGGTTGGAGA  
GTTCCCAGAACCAGGGGTTCCCTTCTCTTTTAACTACATGAGGTAGCTTCTGGGCATTGC  
CATAGCAT

Sequence 3882

CCGCGGTGGCGGCCGCCGGGCAGGTACACAGTCCAATGATGCTAAAAAGCAAGCACATA  
TGTAAGTCTGCAAAATAACCAGCTGACAGCATGACGACAGGATAAATCCACACATACCA  
TTACTAACCTTAAATGTAAATGGGCTAAATGCTCCATTGAAAGACACGGGGCAAGCTGG  
GTAAAGAACCAAGACCCACTGGAGTATGCCGTCTTCAAGCAACCCATCTCATGTGCAGTG  
CCATACATAGGCTCAAAATAAAGGAATGGAGAAAAATTTTCAAGCAATGGAAAAACAGA  
AAAAAGGTGTTGTACTCCAGTTTCTGACAAAACAGACTCTACCAATAAAGATAAAAAA  
GAGAAGGACATTACAAAGGTGGTCCTGACCTTTGATAAATCTCATTATTGCTTGATACCA  
ACCTGGGCTATTGTATTGCCAAACCAATAGGATAATTTGCTGAGGTTGTGGAGCTTCT  
CCCTTTCACAGAGTCCCTGATCTCCGAAAATTTGGTTGAGATGTAAGGNTGATTTTGCTG  
TACCTNGGCCGCTCTAGAACTAGTGG

Sequence 3883

CCGGGCAGGTACGCGGGGGGCTGCATGCCAGCCAGACACCCAGTCTTGCAAGACTGTCAT  
TGAAAATCTCCGTTTTGCTGTTCTCCGGGTCTCTGCGTCCAGTCTTTGTGTTGGACGGA  
CCTGCCGGGCCATCTTTCTGCAAGAAGATAAAGGAAGACCAGGAGTGCCTGCCGAACCTCC  
TATGGAGGAAGTCTAGGAGAGGAAGGGGACAGGGAGGAAGATGGTGTCTGCAAAACCAGGA  
AGCAGCCTTGCCAGACACAGGATTGGCCACAACCTTGACCCACAGACTTCCAGCCTCCAGA  
ACTGAATTTCCCTGCACAGGCTCTCTTGCTGCCACCATGTAAGACCTGCCTCTGCTCCT  
CCTTCACCTTCCGCCATGATTGTGAGGCCACCCAGCCATGTGGAACCTCCTACTGCAC  
TGAGAAGCACGTGTTCTCCATTTCCCTGGGGGAGACCATTGTATTGGGCAGTTTGAACA  
AAACACCATGGACTGGGAGGCTTACACAACAGAAATTTATTTCTTGCTGTTCTAGAGGCT  
GGGAAGCTCAAGGTGCTGGCTGCATATTCATTCT

Sequence 3884

CCGGGCAGGTACGCGGGGCACTGGTGTGAGGGGTGGTGTGGTCCAAAGGACAGGCTGGATG  
CGGGTGCATCGGCGTGGGTGTGGTCAGCATGTGTCTGCAATGCCTGTGGGCTCTACTAC  
AAGCTTCACAATATTAACAGACCCCTGACTATGAAGAANGAAGGCATCCAGACCAGAAAC  
CGAAAAATGTCTAGCAAATCCAAAAAGTGCAAAAAAGTGATGGCTCACTGGAGGACTTC  
CCCAAGAACAGCTCGTTTAACC

Sequence 3885

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGGCCGCCGGGCAGGTACAAAGGAA  
CCGAGGGGTGACCACCTCTGAGATGTCCTTGACTTTGTATAGCCTGGGGCATATTAGAG  
CATCTCTCTCACAGCTGNCTTTCTTATCCCCATTCTTGATGTAGGACCTCCTTCCGAGTC  
AAGCTTTATCTCCTCCTCGAGACACCANACAGAGCTTTNNTATCCTGTGCAGGGAGCNGC  
TCTTCTCTGGACGAATAAGACTGCGTCACTTTGAGCTACTCCCACTGTCTATCTGCC  
CATTGCCCTTGTGACTACAGGANAGTGNCCCCTAAGCCCTTCTAGAGCTTAG

Sequence 3886

CGGCCGCCCGGGCAGGTACTCTCATCCACTAGACTACATCTCACAACAAAGCTTTGCCAT  
TCAATACAAACAGAGCACACATGATGCACACGAATAGTCTTGCCAATCAGTGATACTATA  
GATGCTGCAACTGTGCCATCAAAACAGACAAGGAAAACACACATCCCTATAATCACTTAA  
TCTTAAGTGTTCATTAATGTTCTCATTAGGCCATTTACTCTATTTAGTATGTTGCTGT  
TTCATGCACTATTATGTATGAGTTAGACATGAACACAGACTGAAATAAATATATTAATG  
CATATACTATATTTAAATAAAATAAAAAACAACAAATCAGTAACTCTGCAGGCATTACCA  
AAACATCTTACCAATTATGCATCTCATGCATATTTGCATTTACATTCTATTTAAGATGG  
GTCATTCCCCTAACACACTTGTGGTTTGATTTTGCTGTTTGTTGATTTGTTTTT  
CACATAAACCTGCAGCAACTGACCTTACTCCAGAGTCCTTGGCTCCACATTCACCTTT  
ATCGTCCT

Table 1

Sequence 3887

CCGGGCAGGTACCCCCGATGCAATGGAGCTCAACATAAAGCAGCTGGATCAGAAAATGAA  
ATGTCTAGTTTACTTGTGATCTAGCTTAAAGTATTTGCCCTCCAACCTGCCCTTTTTTTAA  
CAATGGAAATCTATAAAAACTGACTGCTCTGACTTCAAAGTCACTAAAGATCGAGATA  
AGAAGACTGCTTACCAGCGTGGGAACTACTCTAAAGCTGCTCAATAACGTCAGACACGTC  
CAGAGTGGAGAAGCTCTGAAAGAGCCTCTGGTGACCTGACACTGGCACTACCCATCAGCAG  
AGAAAAGTAGGCCTCTCTGTCCTGAATGTGACAGCCAGGCCAAGCACTATGTAAGGCAGTATCA  
GAGAATCTTTATGACATCAGCAGTAGGAAGAAATTTTTCAACACGATAAAAAATATGGTG  
ACTCTAATAAATATCTGACTGTATTAATAAACAAAGAGTTTCTATTAAATTATTAAGACATA  
TCTAAGAGAATGAAAAATGACCTCTGGGTCAAGGTATCAAGACAGAACAGAAGCATCTAA  
CTTCGTTCTCTCCCTATATTCATTAAAAATAAAACAAAGATTCTTTTCAATAAAA

Sequence 3888

AGGTACTTGTGACAGGCAGACGTGATTGCAGCCACGAACACGATGAACTCACTGAAGTCC  
ACCTGGGCATCTCCATTGGCGTCCAGGTCTTGAGCAATTTATCCACGGCATCCTTGCTCT  
TTTCCACTCTTGACAGGAAGCCTGGTAGCTTCTCTTCTCCATCANCACCTTGAGCTCCCCCT  
TTGGTCAGGGTCTGCGTGCTGCCCTCGCTGGCCCGAATATCGGGAAAAGGACGCTATGA  
TCATGCCCATGGCTGTCTCTAGTTCGGTCATGGTGCTAGGATTCAGACCCACCTTCCTCC  
TNGGGGGGCTGGCAGGGGGCGANAAATGTCCCCGCTTCTTGCCCGGGGCGGCCGGTT  
CTAAGAACTAGTNGGATCCCCCGGGGCTCGAGGAATTCGATATCAAAGCTTAATCGA  
ATACCGGTCGACCTTNGAGGGGGGGGGCCCCGGTTACCCAAGCTTT.

Sequence 3889

[illegible]

Sequence 3890

CCGGGCAGGTACCCGGGCGTGTGAGGTGTCAGTCTGCCCTACTTGGGGGTGCTCCCAG  
TTAGGCTACTCGAGGGTCTGGGACCCACTTGAGGAAGGCAGTCTGTCCGTTCTCAGATCT  
CCAGCTGCGTGCTGGGTACTGGGAGAACCATACTCCCCGCGTACCTCGGCCGNTCTAGA  
ACTAAnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnNNCCGACC  
TCNAGAGGGGGGGCCCCGGTACCCAAGCTTTTAGTTTCCCTTAATTGAAGGTTAATTGCCN  
CGCTTTGGCCGTAATCATNGTCANTAGCTTGTGTTTCTCGNGTGAAAAATGTTAT

Sequence 3891

CCGCGGTGGCGGCCGCCGGGCAGGTACGCGGGAGGCATTGAGACAGCCAGCGCAGGGGC  
CTTCTGCTGAGGGGGCAGGCGGAGCCTTGAGGAAACCGCAGATAANGTTTTTTCTCTTT  
GAAAGATAGAGATTAATACAACACTCTTTAAAAAATATAGTCAATAGGTTACTAAGATATT  
GCTTAGCGTTAANTTTTTAACGTAATTTTAATTAGCTTAAGATTTTANAGAGAAAATATGA  
AGACTTAAGAAGAGTAGCATGAGGAAGGAAAAGATAAAAAAGNNTTCTAAAACATGACCG  
GGAGGTTNGAGATTGNAGCTTCTTCATGGGAGGTAAAAAATTGTATTTAAAAAGAAAATT  
GNAGAGAAAGGGACTACAGAGCCCCGAATTAATACCAATAGAAGGGCANTGCTTTTNAN  
ATTAAAAAATGAAGGTGACTTAAACAGCTTAAAGTTTTAGTTTAAAAGTTGTAGGTGATTA  
AAATAATTTGAAGGGCGATCTTTTTAAAAAAGATTAACCGAAGGGGATTAAGAGACCT  
TGAAATNCCATGACCCNCGAGAAATTGNCGTCAATTAAGCCATAANTTAACCCATTACTAA  
ACCCAGNCGAAATGGAAAGATTANTGGGGGTGGTAGGGNTGAANCATTTTG

Sequence 3892

CCGGGCAGGTA CTGGGCCTTACAGTAACCTGAAATTCCTGATTCTTAGTCAACCTGAAAT  
TTACAAGTAAGGTTGGGTCATTAATCTTAACCATGATGCTCACCAATATTGGATAGCACC  
TNGAGGAAATCCTAGCATTTTGTGCTTAGAGTTGGACTCTGAAGAAAAAGCCATTCCCT

CGTGCTGCGACAGTTCCATTCTCTANAGCAGNCTTACAAC TAGGCTCTAAGGCTGGCCCTAG  
TGAGAAGGCCCTGAAGTGAGAAGCAAGGGCTTCTTTGAAATTGCANGGAGAAGCANGTCAA  
ACCTGNGCCAAGGGTTTCCCCGGTCAAAGNACCTCGGCCCTCTAGAACTAAGTGGATCC  
CCCCGGGGCTGCAGGAATnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn  
nnnnnnnnnnnnCAGCTTTTGTTCCTTTTAGTGnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn  
nnnnnnnnnnnnnnTGTTCCTGNGNGAAATTTNNnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn  
nnAAGCCGGGGAGCNTAAANTGTAAAGCCTGNGGGTGCCTAANGAAGTGAGCTAACTCAC  
AT

AGGATACCCTGGCCACTCCTTTCTTTTGGCTGGCCAATGTCTCCTCTGTAGGCTCCAGAA  
GGCTCTCAGGGATGTAGGCCGGCCTCCCGCAGGGTTGAGTTTGCAATGGGAACAAAGACA  
AGCTGTGGTCCCATAGCACCCTCATCTGGTGGACATCCTTGCTACTGACAGTCAAAAGAA  
AGCCTTCCAGATGAAATTTTAGTCCTTCTGCGCAGCCATGCTCTTCTTTAGCAAAAGA  
GCCCCCGCGTACCTGCCCGGGCNGGNCGCTCTAGAACTAAGTGGATCCnnnnnnnnnnnn  
nnnnnnnnnnnnnnnnnnnnGCTTATTCGGTACCCGTACCCGATCAGGGGGGGGGCCCGGNAC  
CCAGCCT

CCGGGCAGGTACGCGGGGGGTTTTATAAGGGGGAGTTCCCTGCACAAGCTGCCTTCTCC  
TGCTGCCACCACGTGAGATGTGCCTTTCACCTTCCACTATGATTGTGAGGCCCTACCCAG  
CCATGTGGAAGTAGTTCAAGATTTCACATTTTAAGATAATCTGAAAAAATTGGAATGT  
GCCCCAGCTGCCAATACTCTCTCAACACTGTTTATCAAGGAACCAATATGGAAGGAAA  
AACATTGCTTTGAAGGGAAGATGGATGGATCCCCTAGTAACTACAGCTTGAGGTGCAAT  
TTCCCTAAGTTTCAAATTGCCCGAAAAAAGTACCT

[illegible]

AGGTAAGTCTGCTGTTACAAACAAAATATTTGTGTTCCCCAAAATTCCTATGAAGTT  
CTGACCTGCAATGTGATAGTATTTGGAGGTAGGGCCTTTAGAAGGTAATTAGGGCTAGAT  
GAGATC.ATGTGGGTGGGGCACCCATGATGGAATTAGTGCTTATAAAAAAGGAAGAGC  
TGGTGTCTCTGCTACCAACTGAGGACACAGGGAGAAGGCTGCCGTGCGAGGCCAGGA  
AAAGAGCCCTCCCCAGAGCTCAACCATGCTGGCACCATAATCTCAACCTGAGCCTCCAG  
AAGNATGAANATAAATGCTGTGTTGNTTAAAGCCCCAGTCTATGGTATTTTACTATGAC  
AGCTCAAGGCAGACTAAGATTGCTAGTANCCTGCCCGGGCGGCCGCTCTAGAAGTNGTA

CCGGGCGAGGTACGCGGGGGGCCCTTGCTCACTAGAAGGAGCCCCCTGACCCTTTCTTCCAA  
AAATACTTTTTGTCTTTGTCTTCGTTTCTGCATTATCCCCCTTCGTTCACTCCCATAAC  
AACCAACAGCGACAACCTGGCAACCTAGGACAGGAGCGTGAAGGCTCTGCTGGAGCAGA  
GAAACTGACACTGACAAGAAGAACGAGAATGAGAAACCTCGCAGCAGTCTGCTGGACAGC  
TGATATAAGTCTGCAAAATCAGCTGGACCACCAAAACGGCAATTGAGAGCTGCACAACCTG

Table 1

CAATTACCTTTATTCAATTAATGCAAAAAACAAAAATGGGGAGATGTTACAGGTCGAAAGA  
ATGAAGGTCGTGACCAACTCAGTATACCACTGAAGGCTATATGAGCAAAACAGAAAACCTGT  
TCTCATGAAGCAGGATGTTGGAAAACTAACAACCTGTGTCTGCCGCCAGAAGGGTTGCTG  
AGGGCAGTCATGCCCCAAGCGCAGTGTTCTTGTGATTATCTATAGTAACATCTGAAGCC  
TGTTGNACCTCGGC

Sequence 3898

[illegible]

Sequence 3899

[illegible]

Sequence 3900

AGGTACACTTCACGCCGGCAAAGCAGGGATTGGACAGGCATCCATCTGAGACAAGGAGAG  
AGAGACAGTCAAGTAAATGGTTGGTCTAAGCTGCCATACTGCCATGCTGGGCACTTAAC  
ACAGTGTAAGATATTATAGGGTATAGGGAACCGATAACTTGTTGGGATTATGTTGTCCAC  
CTGCATCTTAGAGCAATCAAATCGCTCAGGACTAACCAAGCTGGAATCTCCTCGAATGCT  
GACTGCAGCATTCAAGTAAAGAGCAAAGCTCCTGGGTCGTTTCATCCTGGGCTGCGTGGC  
TCACCAATTGGACAGTCTCTGCTTGTTCAGATCTGGTTTTCTGTTACATCACCAACGCAG  
TCCTTGCTCTCAAACCTGGGGTGGGGGGGTTGGTTGCAGAGACGACTACGTTTCTGTACCT  
GCCCCGGC

Sequence 3901

CCGGGCAGGTACGCGGGGAAACATCAAAGTGGCAAATAAAGAAGCCCAAAGTATCAACA  
TTAAGAAAGCAACAAAATAAACAGCTTCTGAAAACCCCAAATGTGTGTGTGTGTGTG  
TGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTTGGGTGAAGNGNG

Sequence 3902

CCGGGCAGGTACTGTGTCTGATGCTCCACACAGAAGGATGAATGGGACCAAGGTCTTAC  
TCTAAACCATTACAGAGGAGTAGTGAGACCTATTAGAAAGGATTTGAAACAAAAGCTTT  
CAGGTGATCTGCAACTCTTTCACCATCTGTAATGCGGAGATGCAGGAAGTTGGTGTGGC  
CTATATCCCAGTATCTCTTTGCTCAATCACAGCTGTGACCCCACTGTTTCGATTGTGTTT  
AATGGGGCCCCACCTCTTACTGCGAGCAGTCCGAGACATCGAGGTGGGAGAGGAGCTCACC  
ATCTGCTACCTGGATATGCTGATGACCAGTGAGGAGCGCCGGAAGCAGCTGAGGGACCAG  
TACCT

Sequence 3903

TGCGAGCCCTCTGCCAGATCACTGATAGCACCATGCTGCAGGCTATTGAGCGCTACATGA

AACAAAGCCATTGTGGACAAGGTGCCAGTGTCTCCAGCTCTGCCCTCGTGTCTTCCTTGC  
 ACCTGCTGAAGTGCAGCTTTGACGTGGTCAAGCCGCTGGGTGAATGAGGCTCAGGAGGCA  
 GCATCCAGTGATAACATCATGGTCCAGTACCTCGGCCGCTTnnnnnnnnnnnnnnnnnnnnnn  
 nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn  
 nnnnnnnnnnnnnnnnnnnnnnnTCCCTTTAATGAGAGGTTAATTGCGCGCTTTGGCGTAATCATT  
 GGTCAAGCTGCTTTCTGNGNGAAATGNTATCCNGTTACAATTCCACACACATAN  
 CNAACCCGGGAGCATAAAGTGTAAGGCTGGGG

AGGTACGCGGGGATCCAGAATACATTTCCAACAAGAGCACTGGCCAAGTCAGCTTCTTCT  
GAGAGAGTCTCTAGAAGACATGATGCTACACTCAGCTTTGGGTCTCTGCCTCTTACTCGT  
CACAGTTTCTTCCAACCTTGCCATTGCAATAAAAAAGGAAAAGAGGCCTCCTCAGACACT  
CTCAAGAGGATGGGGAGATGACATCACTTGGGTACAATACCTTGGGCCGAAATCTGTCAGG  
TCAGCCCAACTTTCCCTTGTCTGTCAATGCTGTGCCTGTCTCTATACCGGAGAAAAAATG  
GTTCTGTGGAGCCTGCGGTATTGTTTGCCTGGGTGGAATTTTTACCTTTTGGTTCAATCTT  
TATTGAAATGTATTTTCATCTCCACNTCTTCTTGGGCATATAAGATCTATTATGTCTATG  
GCTTCATGATGCCTGGTGTCTGGTTATTCCTGTGCATTGNGACTGTCTGTGNGACTATTGT  
GTGCACATNTTTTCTACTAAATGCANAAAGATTACCCGGGTGGGCAATGGGCAANNNTT  
TCTCTGCTGTGTGCATCAACTGCAATCTATGTNTACATGGTNTTCCCTTTACTACTATTTT  
TNAACCAAA

TGCAGGGTGAACCTCCCTTCTCTTCTCAATCAGCCACTTGTTTGAACAAACTTCTGCAGC  
 ACCTGCTCCGCTTCTCTTCTCTCATCTTCTTGCCTTTAAGTTGATCAACCAGGTTCAAT  
 ATGTTTGTGGAAGACGCAAAGCCGGTTTCTGAGTCAATAATCAGTTCAGAGCCTTTCTA  
 AACAAATCCAGTTCATTCTCTGCAAAATCCGTAGCCATTTTGAAATTGAAGTTGTAGCA  
 AGATTACCAACGCATAAATGGGTCTCCCATCATCTTCCGTGACTCCTCTCTTTATCTCA  
 ATATACAAGGGACTCCAAGACACTGTTAATGTTGTTGATGAAGTCTCTCCAACTTATCTAC  
 GGTGGCATTGCGCGTTCATGGACCCTGTAGCAGTGCCTGCGCAAGCGCTTCACGTCCTCAT  
 TCCTCTAGCACGCCATTGGGTCTATCAGCAACTGGAGGAGCGCCGGTGAGATCAAGTCAT  
 GACGNCCTCATCTCTTTGTCTGCCCTGCATGTGGGAACGAACAGGGAGCCCAAGNGC  
 ATCCCAAGCCGNCCTCCCGCTCTCTCGGGCCGNTCTAGAACTAAGTGATCCCCCGGG

[illegible][illegible]



Table 1

Sequence 3908

GC GCGTAATACCGACTCACTATAGGGCCGAATTGGAGCTCCCCGCGGTGGCGGCCGCC  
GGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTGGTTTTTTTTTTTTTCTGGG  
TNAAGTTTATTCTGTTTTCACATCTAGGTTGNTGGGAGAGTGATAGACAAAGAACNGGA  
TTCTGGGCATCGTCGNCGCATGCTTGAAATCCTACTNGNGAGGANAAAAANAAGANGAANA  
AAAAGAAGCNAAGGANTAGAANNNNANAANGNGACNANGAAAAACANNTANNAAAACCANAN  
GAACNNAAAAANANNAANAANANCANANNNNAAACCNCNANANNNTAANAAAACATAANANG  
GNAGANCNANCNAANAANAANANNANANAATAAAAAAATAAAAAAAAAANANANAACNNC  
AAAAANAGAAAAAGAGAGAANNACAAAAATAAAGANCAANANAACCAANAAACANANAG  
ACNAAAAAGANGAANNNAANAANCNNAAAAACNNANAC!ATNNCANANAANNNANAAAAAN  
AAAAAACAANAAAAANAAAAANAAAAANNCAAAAAANANAANANAAAAANACANAAA  
AGANNANAAAAAATAAATAAAAAA

Sequence 3909

[illegible]

### Sequence 3910

AGGTACATCTTTCCAACTGGACATCAAGGAATTGCTACACAGAANAACCATCCAGGA  
TAGAAAGGACCAGCCAGAGCTCGTTTCAGTNGTGATTTNAGAATCATCAGGGAGGAGCCC  
GGTAGCAGAAATTATCCCGTTAACTGANACCACATTTACCTGTTACTTATTTTTCTAA  
ATGGAGTAGGAGAGAAAGATGCTAAAATGTGATCTTGGGAGGAGTCCCCCAGTCCCCGA  
AAAAGAAGAAGAAAAAANGNAGAACTCCAAACCCCTGTGGTCATGGCAATTNCCCA  
TCANAACCTGCCCATGTTAAAATAAACACAAGCTGCTTAAAGTGAATGTTAAGAANGGAA  
GGCCTTGGTTAGTGGGTGGTCCTGACCAATCCCCTGGAGCTGGANAGGGGTTTTTCCNAC  
NGGCCCTTTGGTTAATGTGTCTGTAACNTCAACAAACCTNNCGTTTTCCCCTGAGGTAA  
TCTGCAAAAACATCAGTTNTTCAGTCCCCGANNACCATTTCNTATTAACCTNACC  
CCCCGAAATCATTTCAATNGTAACATTTTGCCNTTATTTTAGA

Sequence 3911

TGTTGGAGCTTTTCAGAACGTTCTCTTCTTGTTAGACACGAGATACCGCTGTAACCTTTA  
CTCCATCAACAGAAACCTGTGCCCTTGAGTCTAGTCTCTGCTCAGCCCTCGAGAGCATGGT  
TGGATTAAAGGAAATAGTCAAAGGCAAGCAAGCAAAACCTCCCTAGGTTGTCTCTGGTCATGC  
GTCCTTTTAAAGGGAAGAAAGAAAAACACACACAGATAAAAGCACCAGGCGCTGGG  
CTTGTGTGAGGAGCCAGAGAGGTCGTCCTTCTTGAAATCCCGCGTACCT

Sequence 3912

TGGAGGCGCTGGCTGGGAGGTTTCACCCAGTGAGCAGAAATGTATCAGGGTCCCACTTAA  
AGAAGCAGTCTCGCTATGATCTGGCAAATCCACTGTACCT

Sequence 3913

TAGTCTCACAAACACAGAGGGCTCCGCACTCCGCATGTAGGTCCACATTTTATCAAACA  
CTGCAATTTTAGATCTCCTGAAAACTCTTTAGTGGAGCCAGAGTCTAATGTTCCATAGG  
CAATTTCTGTTTGCTTAGAAAGATCCTCAGCACTTTGATGGGAGACACCATCCTCTCTA  
CAGTCAGGAAGGCAGCTAAGTTAGCCGTGTAGGAGGAGATTATGATCAGGGTAAAGAACC  
ACACACACACTCCAACATCGCCCCAGAGAGGGGATCTAATAACAAGTATGAAATGGATT  
TGTAAGGTGAAATGAATGACCTATAAAAAACAAGTTAGCAGTATTATGCAAATATTGA

Table 1

CTTATAGGGGAATATTTAATTTTATATTTTCAATGTATCTACTAGTTAATGAACTGGA  
AATCATTAACATTTTGGGGCAAGGAGTACAGCCGAAACCTCGCAGCCGNTCCTTGCAG  
TCCAC

## Sequence 3914

AGGTACCATAGCCAAATCTGGGACAAGCGAGTTTTTAAACAAAATGACTGAAGCACAGGA  
AGATGGCCAGTCAACTTCTGAATTGATTGGCCAGTTTGGTGTGGTTTCTATTCCGCCCTT  
CCTTG TAGCAGATAAGGTTATTGTCACTTCAAAACACAACAACGATACCCAGCACATCTG  
GGAGTCTGACTCCAATGAATTTTCTGTAATTGCTGACCCAAGAGGAAACACTCTAGGACG  
GGGAACGACAATTACGTGAGTATGACCAATTCCTTATAAGAATTAATAGTCATGGTGAGG  
ATCTTGACTCTCCAGTTCTATTCTCTGAGCAAATGACTTATTCTGGGCCCTTAATTTTCCT  
GCCTTATAAAATGAGGAAACAGAACTGTTGTCACTTGAAGAAATGTTTGAGGACCTGCAA  
AGGGCCAGGCACAAAGGTTTTGTGATTGCTGGTTGTACCTGCCCGGGC

## Sequence 3915

CCGGGCAGGTACATCATTCCAGAGCAGGCACTGGCGGCGAGATAGGGTTGGAGGAGAAG  
TAGCGCCGGGACTTCCGGATGGCAAACCTTCTCTGTGGGTAGAGATTTCCAGCAATCTTG  
AGCTTCAGGCCTGGCACAGCTCGAAATAATTCCACTTCGTCTGTCCTCCCGAACGGCTTG  
TCCTCCTTCCCAAACATGCTGAGGTAGGCGGCCCTCATGTAAATGTAGGTGGCCTTTT  
AGTCAGATCATGTCAGTTCCTTCTGGAATCTGGTTATATTCCATCACACTCAGGAGACA  
TCTCCTACAATTTCTTGACACCTGCAGCACTCCAGCCACACGACGGCCTCAGGGCCCCG  
CGTACCT

## Sequence 3916

AGGTACGCGGGGAACACATCCAAGCTTAAGACGGTGAGGTGAGCTTCACATTCTCAGGAA  
CTCTCCTTCTTTGGGGAGCCTCAGATGGGAAGGGACTCGAGCCCCACCTGTCCCTGGACT  
CTGGAATGCCACGGAATTAACCCGAGCAGGCATGGAGGCCTCTGCTCTACCTCATCAGC  
AGTGACCAAGTGTGGCCAAAGTGGTCAGGGTGGCCTCTGGCTCTGCCGTAGTTTTGCCCT  
GGGGGCTCACCGTGTGGGGGAGCAAATCATGTATATCCAGTGCTGTGAGTGGCTCCAGTC  
ATGGAGGAGCAAGGATGAGTTCGCCCTGGAAGAATCTGGGAAGGCTTCCCTGGAGGAGGGA  
ACAATGGCATGGACCTTGAAGAGTCAGAAAGCTTTCAATTCATTCCATTCAAGCATTGCTC  
TCATGTGGCATTCAAGCATTCTATAGTGCTTGCCGTGACTCAGGCGCACAGTGCAAAAGG  
AAGCACATCTTTCTCTGCCATGAGGACTTATTAGTGTCTGAAGAGCTTTTTCTGGACTAT  
AGGAGAAAGTCATGGNCTCCCTCACTAATAAACAAGT

## Sequence 3917

AGGTACGAGATGCCACGGCACGAAGTCTACGTTCTCCTGATCCGAAACATCTTTTTGAAA  
ATATCAATCATTGGCATTCTTTGTTACTATTGGCTCAACACCGTGGCCCTGTCTGGTGAA  
GAGTGTGGGAAACCCTCATCGACCAGGACATCTACCGGCTCCTTCTGATGGATTTTGTG  
TTCTCTTTAGTCAATTCTTCTCGGGGAGTTTCTGAGGAGAATCATTGGGATGCAACTG  
ATCACAAGTCTTGGCCTTCAGGAGTTTGACATTGCCAGGAACGTTCTAGAAGTATCTAT  
GCACAACTCTGGTGTGGATTGGCATCTTCTTCTGTCCCCTGCTGCCCTTATCCAAATG  
ATTATGCTTTTTCATCATGTTCTACTCCAAAATATCAGCCTGATGATGAATTTCCAGCCT  
CCGAGCAAAGCCTGGCGGGCCTCACAGATGATGACTTTCTTCATCTTCTTGCTCTTTTC  
CCATCCTTCACCGGGGTC

## Sequence 3918

CGGCCGCCCCGGGCAGGTACAGTCCACTAGCACGGCAGCTATAGTGTGGGCTATCTAAGAGT  
GCCCTGTAAGCATGTGTGGCCAGGCTAGGGCCATGGGAGAGGCAAGCAGACTAAGGAGTG  
CTGCCATCAGACCAGCCCCATCTCATGTGCAAGACTGCCAGCCTCCAGAGATCAGGTCT  
CAGAGGAGAACTCTCTCAAAGTGAACCCCTGGTCCGCCCTCAGACACTCTGAAGCCCTAA  
GGCTGAAATGCCTGGGTGCCCCAACAGCAAAGATGACAACTCTGGTCTCCCCCTGGGAG  
CTCTGACTCAGTGAGGCCTGAGACCTCTGTGGCCAGAGAACAGCAGTCAAGGTAGCCAG

A

Table 1

## Sequence 3919

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTAAACAGTTAAGAATGTGTGACGTTATTT  
ATGACCAGAAAAGTTCAGATTGAGTCTAAAAATCACAGTAGAGGCTAACCCGATTATTAT  
TATTTAAACACAATTAAACATTTAAAGATGAGTTCTGGGGGAGTAATTACTCAGATGTTA  
ACACTAGTGCCCATCAAAGAAGGATTTTTAAAAGATACATTTTCACATTTCAITTTATTGT  
AAAATCTTGATTGTGCTACTCTATTAATACCATGAATAATCTTAAGTAGCAGGTAAGCAA  
ATAAAATACATAATTGTATTTTGGCTTATTCTGTGTAAGTTTACAAATCTGTTTACCTTA  
TTCAACAACAAAATATTTATT

## Sequence 3920

CGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAATGCCAGGAAGATGAAT  
GTGCGTTAATGTTGCTGGAACATGGCACTGATCCAAACATTCCAGATGAGTATGGAAATA  
CCACTCTACACTACGCTATCTACAATGAAGATAAATTAATGGCCAAAGCACTGCTCTTAT  
ACGGTGCTGATATCGAATCAAAAAACAAGCATGGCCTCACACCACTGCTACTTGGTGAC  
GCGGGGAAATATCGCCATCGGCATTTCCCCCTACGTTNTTTGGGTGAGTGAATTCAGCC  
TGAGAGAGGAATAGTAAGATACAGTGAAATGTGAATAGGATCATGTGTTCTTTAATTT  
GAATTATGTATTCTTTTCTTCTATTTTCCAAACTC

## Sequence 3921

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGTAACTTTCTGAATAACT  
GAGACATGTCTTAAATTTTGGGAGTTTACAAGGGAACAAGGGTAAGAATTAACCTTAC  
TAATATTTCTCACCCTCCAAAGCCACTTCAACCACTGCCTTTCTCATTTCCGTTAATAGC  
AACTCCAATCTTCCAGCAGTTTATAGGCTGCAAAACCTTAGCTCCTCTCTGTCTTACACTT  
CACATCCAATCTGTACCTATTCAAAGTATCCCCCAAATCGAGCAATTTCTCACCATCTC  
TTACTAATACACCTCAGGTCCAAACCACCAAGTATACCTCCCTAGAGTACCTGCCCGGGCG  
GCCGCTCTAGAACTAGTTGGATCCCCCGGGCTGCAGGGAATTCGATTATCAAGCTTATCG  
ATACCCGTCGACCTCGAGGGGGGGGCCCGGTACCCANCTTTTGTTC

## Sequence 3922

GGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAAGAACAACCGGAAGCCTAAAGATGGACC  
ACAAACCTTTGGATATCCAGGATAACTGAGTTAAAAACCTACCACACGGTTAATAAAAA  
ATGATGTCCACTGAGTCCATGACCACAAAGCAAATCACCAGCAGCAGGATGGCATGGGCG  
GCCCTTTTCTGCTGGGGGGAGGGACTTGGAGCAGAGGCTGGGGCTGTGAAGGTGATGGGAT  
CACCTCTGATGGTTAAACAAAGAGTACCTGCCCGGACCTGCCCCG

## Sequence 3923

CCGCCCCGGGCAGGTACANAAAGAGGTTTGTCTGACTTAAAGTGATTTGTCATCTTTCTTT  
TCCACTCTCCTAATCATGATCTGTTCCCCCTCTGGCCCAATAACTTAATGCTTGNAAC  
TGAGGTCCACCCATTTATGGAAGNNTCTTTTAGTCCACAGGAGNTCCCTTNAACACCCC  
TTTNTTCTTGTTCCCTGGTNGACAAATTGGTATTCTGGNAANAATTANNCCATNNTTTGA  
AAANCCCNCTTTTNTANTAGNNGGTGCGTTCNNANGTGNNGNACCTANAAATTGNGA  
GTTNAGGGCCAAGATTGAACACCATGTCCANTTTAAAAANGNGGATATANAGNAAANTA  
NNAAAAANATTNNATNNAACAAACNNAGGTANAAATATTCNGTTTNTTTTAAAGGNANTC  
NNNATCNTNNTNANNNAGGGCGAACACACGCAATTNCNGTTTTTTTTTNAATTNAAAAA  
AAAAGNTGGNGATTTTNTTCTCANAAATTTNACCAACCCAATTAANTGGCCCCCAATTAA  
TTNTTNTCAACCTTGGGAAAAATTCACCCANNGNTGCCAANTACAATTTTNTAAATT  
TTNNGGTAAAAANAATTNGGCCAACANANCTTTTTTTAA

## Sequence 3924

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTCAGCTCCACCA  
CGGTGCAGGACAGCTCCTCGTCCCGGAAGTAAGGTATAGTCAGGTGATGAAACTCATCA  
TGGGCACCAATTACCCACTTTTCTTGCTCAAGTAGAACCTTGACTGATGAGTATCTTGGG  
GGTCAAAGGGCATCCCCATTTGGCTTTAAAGAAGATGAATTCACCAGGACCATCATTG  
TCTGCGAGTCAAGGTCCTTGATCAAGATCTGTGATTTTCCCCCTAGTCCATTCTTCACG

TAGTCGTTGATGAGCTTCTTAGCTGCAGCTGAGTCCTGAAAGTCACCCGCGTACCTGCC  
 GGGCGGCCCGCTCTAGAnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn  
 nnnnnGATACCCGTCGACCTCGGAGGGGGGGCCCCGGTACCCAGCTTTTGTTCCTT  
 T

CGAGGACNCGGGGCTTTTCACAAGATGGCGCCGAAAGCGAATAAGGAAGCTCCTGCCCC  
TNCTAAANCTGAANCCAAAGCGAAGGCTTTAAAGGCCAAGAAGGCANTGTNGAAAGGTGT  
CCACATNCACANAAAGAAGAAGATCCGTACGTACCCACCTTANTGTTNGNNGGATCTTN  
AGNANTAANGTGAATCCCCNCGGTGCTTGAAGCGNAATTCTTATATCAANNGCNTNA  
TANNATNACCN GTTCAACACTTAGAGCGGGGGGACCCCNAGNTTTTTTNG  
GTTTTNCNNTNTTATGTNNAAGGGGTNTTATATATTGGCCGACANCCTTTGNACNTTTAN  
ATTTCATNGGGNNNGCAATTAGGNATGGTTTGTNCCTTGGTGGGGTGAAAAAATGTC  
GTNTGATTNNCCGGGCTTCAACNAAAAATCTCCCAANNAACCAANCCAANTAACCCNAA  
GTACCCNCGCNGAAGTCCAATTANNAAAAANGTTGTTAAAAAAGAACCCATTGGNGGN  
TTTTNGCCCTTAAAAAT

[illegible]

CCGCGGTGGCGGCCGAGGTACAGAAGATGATTGACCTGGAGACACCATCCACCCCGATT  
CTTCTCACAACCTTGATCAAAAATGGCCTCTAAGCCTAAGTCCACGGCATCCCCACAATGG  
ATGTTAAGGTTCTCAAAGGGAACAGCTCGGATCTGGTGTGAAGAATGTCAGTTAATGTT  
TCCAAGTCCAATTTGTTCTAGACTTCTTATAGCCAATCTTTCAAGATATGCTTCAATG  
TCCATGATCCCCTTTCTTAGTAAGTTGAAAGTAGGTTGATCTTCAGTTTAAATCCAGAAG  
ACAGATTGCTGCTCTTCTCTGGCTTGAATTCAGGTTATTTACGCCGGCAACCAGGNAACT  
AGGACTGNAATGCAATCTCCACATCCAGGTCCCCCCCGCGTACCTGCCCGGGGCGGC  
CCGCTCTAAGAAGTCTGGGGATCCCCCGG

ATTGGAGCTCCCCGCGGTGGCGCTTTGCACACACGTCATCAACAGACAGCAGTCAACAAG  
CTGCCTAGGGCCTCTGCAGAGCCAGATCAACCCACAGCCTGTGAGCCAGGCCTTAAGCT  
GCCTATTTGTGCTGAAGCGGGCTGCAGAACGACCCGTGTTATCCACCCTGAGCACCACCA  
ACACTAAGCACAAATGACAAACCATCTCACCTGAACCCCTGTCCAACCTCACAGCTGCCTC  
ACTGGCCTTTGCCACTGCCCTCTCTGATGGAGCAAGGGTCTGGCCTTCCAAGCAAATGTC  
AGCCTCAGATTCAAAGACACATAGGAAGGAGCAACACCCAACACACTGAAAACCTCCTGC  
CCGATCCACAAAGACCCCATGTGCAAGCGATGGGCAGCATCAGATTGATGGGAAACCACCA  
CCCTTTTCATTTTAGAATTTTT

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTT  
TTTTTTTTTGCACGCCCCAAAGGGGGCAAAAGAGACTTTAATTAGGGGAGGGAGGATCC  
ACCANAAATCAGAAAAGGGACAGCTAGCGTGGGAGCAGAGGAGCCATAACAGGCAGGAGGA  
GGGCCCGGCCAGGAAGCTNTGANGGACTTTAACCTTTGGCCACTTTGGCACAAAGGCAT  
TGACACTGACGGACAAGGCGTAAGCAAGCGGCCCTNTCAACTGGGAGGGACCCCAATGGCC

[illegible]

[illegible]

Table 1

CTTAGGGCGCAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAGATGGAAAATGTTTTT  
GGTGATCTGGCTGCTGCTTAAAGCCAGTTTTCCCTAAGAACTCCAAAGGCTAAAGTCTAC  
TAGGGGCAGAGTGTGAGGATAGATTTCTAATCAGAGAAAAGTGGCCTCCAGGAGCTTTCA  
TTTATGTCTTCTCCAGACCAGGGTTTCCCTGGTTATCTTCCTTTAATCCCCCTTTCAACCA  
ACAGGTGAAGTTCTTCCAGCCCACAGAGGTAGTAATATCATCTTTTCTATCTCCTCCTCT  
CCTTTGGCCATGTAATGAAGCAAAATATTATTTATTTAGCCCAGGCTTGAGAGCCACTGT  
TTGTGGGACAGTCTTTCATCTAGATTCCATACCCTGGCCTAGGCCGAGGTAAGGGCTCTCT  
GGTTATTGCCAGGATGGGA

Sequence 3941

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGA  
CCCGAGATCTAATCTCTGTGCTCTGTGTATTGGCGACGAGCAGG-GTGAGAATAAGTGCCT  
GCCCCAACAGCAACGAGGGATACTACGGCTACACTGGGGCTTTCCGGTGCCTGGCTGAGAA  
TGCTGGAGACGTTGCATTTGTGAAAAGAATGTTCACTTGTCTTTCAGAAACACTGATGG  
AAATAACAATGAGGCATGGGCTAAGGATTTGAAGCTGGCAGACTTTGCGCTGCTGTGCCT  
CGATGGCAAACGGAAGCCTGTGACTGAGGCTAGAAGCTGCCATCTTGCCATGGCCCCGAA  
TCATGCCGTGTGTGCTCGAATGGGATAAGGTGGGAACGCCTGGAACAAGGGTGTGTCTC  
CACCCTGGACAGGGCTCAAAATTTGGGGAGNAAAT

Sequence 3942

[illegible]

Sequence 3943

[illegible]

Sequence 3944

GGAGCTCCCCGCGGTGGCGGCCGAGGTACTCTCTTTCTTTTTCTTGGTTGCTGTGAAG  
GAAGTCAGCTGCCATGCTGTGAGCTTCCATTGAAGACAGAAGTCTTCTTCTAAATGCCA  
CGTGAGTGAGCATGGAAGTCAAGCCATGCAATGACTGTCACTCTGGCTAGCACCTTGATT  
GCAATCTTTTTGGNAGGCCTTGGTCCAAAGTCACCCTGCAAAACCAATGCCCAGAATTA  
CTGACATATTTATTTCAAGCTAATAAATTATAGGCGTAATTTGTAATATGCAGAAATAGA  
TAACATTACGTAGATCAAATGAAAAGATTTCCAATGTGTAGAACTACATAAATCTT  
TTCTTACAGGACAATCTTATTCTAATCAATAACATTTGCTTTAAGGCAGATAATCCTCC  
AAGGTT

Sequence 3945

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGCAGGTACGCGGGGAAGA  
ACAGTTAAAGTGTCTTCTGGATGAATGCATACTTAAACAAAATCCATCATTAACTTTC  
TTCAGAAAGAAAAAGGAAGACATTGAGGACGTAACACCTGTGTTCCCCAGCTTTCAG  
GTCCATCATCTCTAAATTGGCTAAATGAATCAGAAACAAAGGTCCAGAAACTGAGATAG

Table 1

AAGATGCAGATATGCTTGAGAGTGAAGAATGTGAAGCTTCTAAAGGCTACTATCTCACTA  
AAGCCTTGACTGGACATAACATGTCAGAAGCTCTTGCTACTGAAGCAGAGAATATGAAAT  
GCCTTCAATTTTCCAAGNGACGTTATTATTTAGTGACACAAAAGACTATTTTATGTCGA  
AGACTTCTTGCCATT

Sequence 3946

CTGATTGGAGCTCCCCGCGGTGGCGGCCGGGCGAGTTGAAGGCCTTCAGAGCAAACTGAG  
GTTTCTCGGTGTCATGCGGTTATGTCTTCAACACCTGCGTCCCCCACCAGGAGGCCAGCTCCC  
AGGGCGCGTTCTAGTGTGTGGCGTTCGCTTCATATCCCAGGCGTCGCTTGCCCCAGCAC  
GCCTGTGTGCTCAGTAACAATGTGTTAAGCACAGGATTTTGGGAGAAGTGATATGGACG  
TCTGAAGAAGGGTTGTGCTTGGAAGAGCCCCGCGTACCT

Sequence 3947

CCGGGCAGGTNCGCNGGGAGATCANTGATAGCACTAGATACTCATTGGAGCATGAACCTT  
GNNGTGAACGTCTCATCTGAGGGATCTANGTTGTGTGCTTCATATGAGAATCTAATGCCT  
GATGATATGTCACTGNCTCACTTTGCCCCCAGATGAGACCATCTAGTTGCAGAAAAATAA  
GCTCAGAGTTTTCCACGGATTCTACATTATGATTTGATCTTCAACAAAGCTGATACTGGGG  
AAAGGACACACTCTTCAATAAATGGTGCTGGGAAAATTGGATAGCCACATCCAGAAAAAT  
GAACTGGACCACTATCTCACTATATACAAGAATCAACTCAAAGTAGATTAATAAACTTAA  
ACAGAAGACCTGAAACTATAAAAACTTGAAGAAAACCTAGGGAAAAATTTCTTGGCCT  
TTTGTCTAGGCAAAGAATTTATGACTAACACCTCAAAGCCACAAAGCAACACAAATAAAA  
ATAGACAAATGGGACTTAATTAACCTTAGAAAGCTTCTGAGCAGCAGAAGAAATAATCAGC  
AGAATGAAGAGACACCTNCTGAATGGAAAAAATATTTGCNACTGTTTCATCTAATAGTG  
GCTAATACCTAGAATTACCAAAAC

Sequence 3948

CGAGGTACGCGGGGCTTAGACCTGACGCTGGGAGGAGATGCTGCCACCTAGGTTACTTGT  
AGGACCCTATACGGCAACCTCCTTTGCCAGGAACTATTTATAAACATCCTGCAGGAAAAT  
GAGTCTATATGTCAGAATACACATTTCCACCTTGCCCAACAGTAGAAAAACATAAGAAG  
AGAAAAACATTAATAAATGACAAGGAAGTTAATGGAAGTCAGCAATGTGATGGTGTGTTGG  
AGGTGGAGCCTTCAGAAGGTAATTAATGCCCTTGAAGAAGAGGCCAGAGAGCTTGCGCA  
CCTTCTTCTGCCATGTGAGGAGCCAAGAAGCCGGCTGTCTGCAACCTGCAAGAGGACCC  
TCACTAGAAGCTAGCCATACTGGCATCCTCATCTTGGCTTTCCAACCTCCAGAAGTGTGA  
GAAGTATATGTTTGTGGTTTAGTCAATGGTCTATGGTAATTTTTTTATAGCAGTCCCAGC  
CAAGACAGTGCCTCATTTACTATATACCATTTATATTATTA

Sequence 3949

AGGTACTTTTTAATTTTTTTCTTTTTTTCTTGCCCTTTCCATTAGTTGTATTTTTNAT  
TTATTTTTATTTTTATTTTTTTTAGAGATGGANTCTCACTATGTTGCTCAGGCTGGCCT  
TGAACCTCTGGGCTCAAGCAATCCTCTGCCTCAGCCTCCCTAGTAGCTGGGACTTTAAG  
TGTACACCACTGNGCCTGCTTTGAATCCTTTACGAAGAGAAAAAAAATTAANAAANC  
CTTTANATTTATCCAATGTTTACTACTGGGATTGNTTAAAGNGAGGCCCTCCAACACCA  
GGGGGTTAATTCCTGNGATTGNNAAGGGGCTACTTCCAAGGCATTTTCNTGCAGGCAGC  
CCCTTGGGAGGGCNCCTGAAAGCTGGTAAAGTCTGAAATTAGGGATGTGANCTCGGGGT  
TACTGAGTAAGGTAAAATTGCNTCCACCATTGTTTGTGATACCTTAGGGAATTGCTTGGA  
CCTGGTGACAAGGGCTCCTGTTCAATAATGGTGTGGGGANANAAAAACCTGATTATAG  
ACCGAAAAAGTAGGANTTGAGGTGAGGTNAAAGAAGTNTNGGGGTGAAAATGTCCCTT  
TCCCCCT

Sequence 3950

TAGTCCTCACAAACACAGAGGGCTCCGCACTCCGCATGTAGGTCCACATTTTATCAAACA  
CTGCAATTTTAGATCTCCTGAAAACTCTTTAGTGGAGCCAGAGTCTAATGTTCCATAAG  
CAATTTCTGTTTGCTTAGAAAGATCTCAGCACTTTCGATGGGAGACACCATCCTCTA  
CAGTCAGGAAGGCAGCTAAGTTAGCCGTGTAGGAGGAGATTATGATCAGGGTAAAGAACC



Table 1

ACCACACACCTCCAACAATGCGCCCAGAGAGGGATCTAATAACAAGTATGAAATGGATT  
GTAAAGTGAAATGAATGACCTAATAAAAAACAAGTTAGCAGTATTATGCAAATATTGAC  
TTATAGGGGAATATTTAATTTTATATTTTCAATGTATCTACTAGTTAATGAACTGGAA  
ATCATTAAACATTTTGGGCAAGGAGTACCT

Sequence 3951

CCGGGCAGGTGCAACAGCTGAGACAGATCTGCGANGATCACATCNGAGCACAGATNNAT  
CNATTCANAGAGGATNCATNGGATAGCGNTCTTTTTTAAAGAAGATTGATNCGATGCTG  
GCAAAACCATTGCANACAAATGATCATGATCAGGAGCATTTTTTTGTGTCTGGATAGAA  
CTTACGTTCTTCAGAATTCATGCTNCCCTCCATTCGGGGACATGGGACTGGAGTTATTN  
A

Sequence 3952

TTGGAGCTCCCCGCGGTGGCGGCCGCTGNCCACNAGAGAACACGGCGAGGTTNGTNAGT  
GTGANATGAAANTTATCCATGCTGTCCNTNAACTGAGTGTGCGGACACTGAGGAANGCT  
TNGANCAATTGAGTTTTNATCACACGACTTNTTGTAAATGCTTGTACCTCTG

Sequence 3953

GGGCNAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAGACACATGGGTGGGA  
AATTGCAATAAAAAGACGGCCACAGCAGGCTGCATTCCCATGGCTGGCCAGAGGAGGAA  
CGCTTTGTGTTCTCATCGGAGCTGCATGGGAAGTCTGCATACAGCAAAGTGACCTGCATG  
CCTCACCTTATGGAAGGATGGTGGGCTCTGGCCTCCTGTGGCTGGCCTTGGTCTCCTGC  
ATTCTGACCCAGGCATCTGCAGTGCAGCGAGACCCATCCACTGTGGAGGACAAGTGTGAG  
AAGGCCTGCCGCCCCGAGGAGGAGTGCCTTGCCTCAACAGCACCTGGGGCTGTTCTGC  
AGACAGGACCTCAATAGTTCTGATGTCCACAGTTTGCAGCCTCAGCTAGACTGTGGGCCC  
AGGGAGATCAAGGTGAGGGTCGACAAATGTTTGTCTGGGAGGCCTGGGTTTGGGGGAGGAG  
GT

Sequence 3954

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGATGTACANCTANTNNATCNCATGNGNTN  
CTGGAATTTGATNTAANNCTTATNNATACAGNGGACCTTGANGNGGGCCCGGTACCTA  
CATCANGTGCCATNAATGGAGGGTNAATCAGTCGCTTGNCATANTNATGGTNATACTGT  
GGGCANTGCCCTTGACTTCTCTGAGCCTCAGTTTCTTATGTGAAAGTTGCTGGAACCAA  
AATGGAGTCACTTATGCCAACTCTAATAAAATGGAGTCGGGGGGCCACATAGAAGCCCT  
CACACACACATGCCGTAACAGGATTTACCACAAGACACGCCTGCATGTAGACCANACAC  
AGGGCGTATGGAAGCACGTCTCAAGACTGTAGTATTCCAGATGAGCTGCAGATGCTTA  
CCTACCA

Sequence 3955

ANGTNCNCTGGGNATTTAANTATAANTATACTGCCTGCCTATGNGACGACAATCCAAAAA  
CCTTCTACTGGGACTTTTACACCAACAGAAGTGTGCAAATTGCAGCCGTNNTTGATGTTA  
TTCGGGAATTAGGCATCTGCCCTGATGATGCTGCTGTAATCCCATCAAAAACAACCGGT  
TTTATACTATTGAAATCCTAAAGGTANAATAATGGAAAGCCCTGTCTGTTTGCCACACCC  
ANGTGATTTCTCTAAAGAACTTGGCTGGAATTTCTGCTGTGGGCTATAAAATAAACTT  
CTTAACATGCAGTTNNNNNNNNNNNAANNNNNATNNTTTTTTTTTTTTTTTTNNNNNNNNC  
CNNGNGNGNANANANAANAAAAAATTAANNCCNCCCCNNNGGNANAAAAAANAATTT  
TTTTTTTNGNCTNNNGGGGGGGGGGGGGGGGGGGNNTTTTTTTTTTTTTT

Sequence 3956

AGGTACACACCCCCATGCTACACACACTCCTTCATCTCCTTCTCAGTGTTTTCATACCCC  
AGCCGCATTACACACACCAGGCACATCTTCTTTTACAGAGCTTATCAGGATGGTATCT  
CCTTTTGGCTTAAACCAACCACCTTGTTTATAAATAACCCCCCAACCCAGTGCCTGA  
ATTCATCCACATCTTCTGCCTTCATAGGCAGCCTCCCTTGGCTCCAGTTCAGCAGGAC  
AGGCCTTCCCTGAAAGGAAGCCTGGGGCAGTGAGGCCACACTAGTCAAGCGTTCGGCCT  
CCCTACACCAATCCCAGCTGGGCTCCTAGTTGCCTANCACCTTTGCACTCAAGAAAGTTA

Table 1

TATTGNTTTTCTCTCTCTNGCTCATTTCTTGCCAGTATTCTGCCTTTTCATAACATTTAT  
GCCAACAAAGATATCTGGTCACCCGCGTACCTGCCCGGGCGGCCGCTCTAGAATA

Sequence 3957

NGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTCCTGTAATTGACAGCCTTGCCTTG  
TTCCTCATGGCATCATTCAAGGTCATCTTAAATGAGAGAGGAGGGAAAGAAAGAAAAAGA  
AATCATACGTTATGGTTTTCAAATGCATCCAGAGGAAAGGCAGGGTTGTTTTGAAAAGT  
TTACTTCTATCTGAAAGCTTCTAGCAAATGAAAGCAAACAGTGCAAAGCTGAACACAAA  
TAATAAAGCACAAATTATGGCAGGAATCTGTCCACATTCACCCAAGCTACTGTGCCATTAA  
AGAGGAAAAATAGACAGTTGAGCTGCATGTTAGTCACCAACTGGGAACATGGAAGAACGTC  
CCAATACATACAGGATGATCCATTGGCCACCTTCCTTATTTAAAAGAGCTTAAGGACACA  
ACAAGAANGCTNAACGTGCACTAAAAAGTTTGTATTAGAGCCTCGTTCCTACCCCTTAA  
TTTTAACACTTTTCGATGCCATATACGTTGTAACCTTCCTTATAAGTTGCAAAATTCTGTG  
AATTCTGCGAGGAAGATGGGTTAATATTCTGTGCATTCTTTGCCCTTCTTCGTTTCGCC  
TCGCCCTTGACTTGACAGAACTCAATCAAAGCCCCACATTGGCNAACCA

Sequence 3958

NATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACACTGAGTAGCGAAGGTATAG  
AGTTTTTCATTGAAATAATTTGGAAGAAGAGCAATTGGATAGAATGTCAAGACATAACAGA  
GTCAAGGGAAAGCATTATTTTGATTTTATATCTGAGTATGTTTTAGCCAGAAGAGGAGA  
AGAAAGAGGTTAAAAAGAAAAACAGAAATTTATAGATGCACGATATTACTTCTGAACAAG  
AGAAAGAAACTGGTAGGAAAATTTATTTTAAAAAGTGTGGAAGGGAAAGAATCAAGACCA  
CAGATCCAGATCCGGAGATTATTTTGCTAAAGAATAGCAATTGTGAGGCATGAAGTGGGA  
GGGGGGAAGAAGCTATGAACTTAATTTTGAGGTTTCTGAGAAGGAAACTTGAGTGAATTC  
ACTTCAGATGCATTTGGAATGTTTGCCTCCAGAAGATGAGTTTGTGTGTGCTCTGGAGA  
GTATTGGAAGAAGGAGGTATTACTAGATTTGGCGGCTCCACAGTGACTCATTACTCTTC  
TCTGTTACTTTTCAGGATTCATAGAGAGATGTTTTGTTGATATTATTTATTAAGTGAGAT  
AAATTTGAATATGAATCCATTGGCTTTTTTTGT

Sequence 3959

AATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGAAGCTTTTTTGCCACAAAGAAG  
ATTCTTACCAAGAGTGGGCTTTGTGGAAACAGCTGGTACGCGGGGGCAGACGCGCGGGCG  
GGAAGATGGCGGCTGGGTTCAAACCGTGGAACCTCTGGAGTATTACAGGAGATTTCTGA  
AAGAGAACTGCCGTCCTGATGGAAGAGAACTTGGTGAATTCAGAACCACAAGTGTCAACA  
TCGGTTCAATTAGTACCTGCCCCG

Sequence 3960

CGCCCCGGCAGGTACGCGGGCAACTATTGCAATGAAAAATTTCAACAATTTTTTAATGAA  
AGGATTCTGAAGGAGGAACAAGAACTTTATCAAAAAGAAGGTTTAGGTGTTAATGAAGTG  
CATTATGTGGATAATCAGGACTGTATAGATTTAATTGAAGCCAAATTAGTGGGAATACTG  
GATATTTTGGATGAAGAAAATCGCCTTCCCCACCAAGTGATCAACACTTTACATCTGCAG  
TTCACCAAAAGCACAAAGGATCATTTTCGACTCACTATTCCCAGAAAATCTAAGCTGGCAG  
TTCATAGGAATATCAGAGACGACGAAGGCTTCATTATCAGGCATTTTGCGGGGGCAGTGT  
GCTATGAAACAACCCAGTTTGTGGAGAAAAATAATGATGCTTTACATATGTCTCTTGAAT  
CCTTAATATGTGAATCCAGAAATAAGTTTATACGGGAATTATTTGAATCATCCCCAAAT  
ACAAAAAFAAAAAA

Sequence 3961

ATTGGAGCTCCCCGCGGTGGCCGGCCCCGCCCGGGCAGGTACGCGGGATAGCATTGACTTT  
TACACACATTACACAAGAAAAAATCCTTTCAAAATCTTAAATCTTCTGTTCTCTCTT  
TTTCCAAGGGAAGAGGGCAAAAAGTGGCCTGGGCTCTGTGGTGTGCGTGTTCGCTGGCGG  
AGAGAAGAAAATGGGAAAGACATCTCACTGGTGCTTTTCTCTTTTGTGTTAGTGCCCCC  
GCCCCCATCCCTATAATATCTGTAACACTCCTAAAAAGGTTTGATTACAGGCTTTTTT  
TGGTTTCATTTTGTTTTTTANGAAAAAGAANAANANNNNAAAAAANGGGCCCC

Table 1

CCNNCCCNTTNA AAAANNGGGGGCCCCCGNNNNGNNANTTTTTTNAANTTTTTT  
NNCCCCCCCCCCCC

## Sequence 3962

NTGGATCCCCNGNGNTGCAGGAATTNCATATCAANCTTATNNATACCNACCACCTATANG  
GGGGGCCNNGTNCCCANCTTNNGNTCCNTNTAGNGANGGTTAATTNCGCNCTGGGCGTAA  
TNATGCGNCATANCATGCTCACTGTGTGACTGCAGCTCAATCTCAAGACCCTGAAGGGTG  
CGCCGCAGGTCAAGTAACCTCGGACCTGCTCATCTGGAGCTGCTCCGTGTGGCCAGCGACC  
TCCCGGTTCAATTCTTCAGTCCGGCTGGTGAACCAGGCTTCAGCATCCTTCCGGTTCTGC  
TCGGCCATGACCTCATATTGGCTTCGCATGTCACTCAGGATCTTGGCGAGATCGGTGCCC  
GGAGCGGAATCCACCTTCACCCGCGTACCTGCCCC

## Sequence 3963

NGCTGNGCTGCTGGGGCCAAGATATTATTTTAACTAGCTGCTGNGCTTTTATCACTTTGA  
ACCTAGAATTTAAATCCCTCTGCCCAGATTNATTTTTTAAACAACCAACATTGNNAGGCAG  
GGGAACAAAGACTATTCCCCAGAGAAGATCACTTGGTTAAAGGTTAAAAAAAAAAAAAA

## Sequence 3964

TAAACTTGCAGCAATGTGAATTGGGCCAGAAGATCAGAGTGAATATGTGTAATACTCC  
AAAGTATGCTAAATTAGAAGAAAGAACAGGATATGGTGGTGGTTTAAATGAAAAAAAAA  
AAAAAAAAAAAAAAAAANCCCCCNCCCCNTTAAAAANTNGNNCCCCCNNNCCNNNNN  
ANTNNNNNNNNCNTTTTTNNNCCCCCCCCCCCCNGGGGG

## Sequence 3965

AGGTACACATCAAGTCAGAAATGGGCTAGCCCATCAGGGAAGCAGCGGTAGAAGAAATCTG  
GGCGTGGCTTTTTAGGGCAAACAGCAAATGACACTGCAGCTTCAGGAGGTGCTCAAGAGG  
ACACTGACCGACTGCTGTGGCCGTTGGTGGGAAATGCTGTTCAAGCAGAAAAGCGCCCAG  
GTGTACCTGGAGGACTGAGGTATGGGGAAGGGAGTAAGCGTTGAATGACAAAAGAAAAA  
TCAGAGTGAAGATAAAGGAGAAAAGAAATGAGAACCCGCGTACCTGCCCC

## Sequence 3966

CGCCCGGGCAGGTACAGTGGCACAATCATAGCTTAGTGCAGCCTCATTCTCTGGGCACA  
AGCGCTCCTCAGCCTCCCTCCTCAGCCTCCAGTTGCTGGAACCTACAGGTGCACCACCA  
TAACCACTAGTTTTATTTTTGTAGAGACAGAAGTCTCACTTTTTTCTAGACTTGTC  
TGAATAGACCATTCTATTTGCTAGAATGGTCTCAAACCATCCTTCTGCCTCAGCCTCCC  
AAATTGCTGGAATTTAGGCATAATTCATCATGCCTAGCCATTTCTTTTTCTGCTGCAT  
TGTAAGTTAGAACCAATTTCAATTTGCCTGCACTGAGAATGTGCATTTCCCAAGCAGATC  
ATGGTTGAGCTCAACACACCTGCACTTAAGCAGCCTCTTTGAAGGGTGCACAGTTACTA  
ACTGTCAAGCGTTGCACAAGCACCTTTAGCANGTATGTTCAGAACTTTACATTTCCACCC  
TTTTTAAACAGCTTACAAGTAACCAGAAGAACGGGGANTTAACTTTTGGACATGCACA  
CTCATTGAAACCCAATGGATTTTGGGAAAGCCCAAATTGGTGGAAAAAAAAAAGGGGG  
GGGATTCTGACTACTAAGTATTTTTTACAAAATCTTGATGGGCNGTTNGCANGGGTTTT  
GGTTAATTTTGGTGG

## Sequence 3967

NCNGGNANGTACGCTNCCCANGNNGNAGCGTGNNNGCANTNTAAGCCNNNTACTTACATCC  
CACCNAGNGGNNNGNCCCCNTGNNNNCTTCTNNGATAATTGNGGNNAGNTTNNNTNATAT  
CTACCAGNAANCNTNNNCNTNGCNTNCTCTGNATCCACTGCTTAAATACGGACGAGGACA  
GGGCCCTGTCTCCTCAGCTTCAGGCACCACCACTGACCTGGGACAGTGAATCNACAATGC  
CGTCTTCTGTCTCGTGGGGCATNCTCCTGCTGGCAGGCCTGTGCTGCCTGGTCCCTGTCT  
CCCTGGCTGAGGATCCCAGGGAGATGCTGCCCANAAAGACAGATACNTCCCACCATGATC  
AGGATCACCCAACCTTNAACAAGATCACCCCCCA

## Sequence 3968

GCNNATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGAGAAGTAGTCCTATTTCAC

0

Table 1

CCCAACTACAACATTAATCGAGCGGCCGCCGCGGCGAGGTACTTGGTAAAGATGGTAAAGA  
 AAAACCAAAGGAAGAGCGGCCAAATAAAGATGAAAAAGCAAGAGAGACCANGGAAAGAGC  
 GCCGAAGTCTGACAAAGAGAAAGAAAAATTCAGAAGGAAGAAAAAGCTAAAGATGAGAA  
 ATTTAAGACCACTGTCCCAACGCAGAATCAAAATCAACTCANGAAAGGGAAAGAGAGAA  
 GGAGCCATCCAGAGAAAGAGATATNGCAAAGGAAATGAAATCAAAGGAAATGTTTAAGG  
 AGGAGAAAAAACACCCNGTTTCTGGGTC

Sequence 3969

TAGTCCTCACAACACAGAGGGCTCCGCACTCCGCATGTAGGTCCACATTTTATCAAACA  
 CTGCAATTTTAGATCTCCTGAAAACTCTTTAGTGGAGCCAGAGTCTAATGTTCCATAAG  
 CAATTTCTGTTTGCTTAGAAAGATCCTCAGCACTTTTCGATGGGAGACACCATCCTCTCTA  
 CAGTCAGGAAGGCAGCTAAGTTAGCCGTGTAGGAGGAGATTATGATCAGGGTAAAGAACC  
 ACCACACACCTCCAACAATGCGCCCAGAGAGGGATCTAATAACAAGTATGAAATGGATT  
 GTAAAGTGAAATGAATGACCTAATAAAAAACAAGTTAGCAGTATTATGCAAATATTGAC  
 TTATAGGGGAATATTTAATTTTATATTTTCAATGTATCTACTAGTTAATGAACTGGAA  
 ATCATTAAACATTTTGG

Sequence 3970

CCGGGCAGGTACATCATTTCCAGAGCAGGCACTGGCAGCGAGGTAGGGTTGGAGGAGAAG  
 TAGCGCCGGGACTTCCGGATGGCAAACCTCTCTGTGGGTAGAGATTTCCAGCAATCTTG  
 AGCTTCAGGCCTGGCACAGCTCGAAATAATTCACCTTCGTCGTCGCCGAACGGCTTGTGG  
 TCCTCCTTCCCAAACATGCTGAGGTAGGCGGCCTTCATGTAAATGTAGGTGGCCTTGGAC  
 CANGAGTTCTCCTTGCTGAGCAGGTGCGCGTANAAGTAGGACATCTTCCACTGGCCCTTG  
 TAGGTGAAGCAGCATTTCCGGGCTGGAAGACAGAGACAGCTGGACAGAGCTCCTGAAAC  
 ATTTTAAATACCCCCCCC

Sequence 3971

CCGGGCAGGTACGCGGGGAAGAAGAAGAAGAAAGGCCAGGAGCAGTGCGTATGCCTGTA  
 ATCCCAGCAGTTTGGGAGGCTGAGGCGGGTGGATCGCCTGAGGTGAGGAGTTCGAGACAA  
 GTCTGACCAACATGGTGAAACCCTGTCTCTGTCTGTAATAACACAAAAAATAGTCAGGC  
 CTGGGAGCAGGCGCCTGTAGTCCCAACAACCTTGGGAGGCTGAGACAGGAGAATAGCTTGA  
 ACCTGGGAGACGGAGGTTGCAGTGAGCTTAGATTGTGCCACTGCACTCCAGCCTGGGCAA  
 TAGAGTGAGGCTCTGTCTCAAAAAAAGAAAAAGAAAGAAATTAAGATAATTCTATGT  
 TAACTCCTTAAATGTAATTCCTAGTTCTTCTATCACCTTTAGCCGACTCTTCTACCTTCA  
 GAGTGGACACTGCTGTTATCAAGCANANAGTGCCGATCTTACTCAAGTACCT

Sequence 3972

ATGTACACCTAGCTCGATNGTCCACACTTTNAGTCNTGAANCNNNAACNCCGATCCC  
 NACCAACANTGGAAGGAGNGGCCNANACNCCNGATCATNGNTANNNNANCANANTGTNT  
 ACNTNGCCCNCTTNAAGAAGTGNNTNACTTACTNGGAGTGTGCGCGGCTTCATTCTTGAA  
 GTCAGTGAGACGAAGAACCACCAACTCCAGACACATTTTGGCGACCTAGATGGGACAAT  
 CGCCTATCACCGAGTGGTGAGACCATCGCCTATAGCTGAGCGGCGAGGCAATCACCTATC  
 GCCAAGCAGCTCCAGAAGCAGATGAGCAGATGAGGAGACGCCTCTATTCCGTGTCGTTTA  
 GAATGAGCAAACAGTTGTCTTACCATCCCAGACAAGCAGATGAATGGTGAAACGATACA  
 GCAGAGAAAGAGAGGAAGGAACA

Sequence 3973

TGTCCCCCTGGTGGGGGATTGGGGATCTGTGTTTAGCCATTTATATCTACTTTAGCTGT  
 TAAAGAGGTCCAAATGAAATCAGGTGATTGTGGAACCATGGGGACTTGGGGGTGGGGCA  
 GAGGTGGGAACATTTGTATCANTTGAGTCANCTTGGTGGCTCCCTGTGGAGCCAGGGCTG  
 AGCCTTGTACGCGCACTCNCCATTAAGAGATGGACCANCCAGCAGTCAAGTGCATTCT  
 CCAATCCTTGCAAGAAGGATCAGCCCTTCTGTGCCAGCCTCNATCGCCTTGTGCTTTGG  
 TCTCTTTTCTCCCCCGCCTGGATCCTGCCTCGCGGGGCGCTCTGTTGCTGAGACT  
 CGGGGTACCT

Table 1

## Sequence 3974

TTGGAGCTCCACCGCGGTGGCCCGCCGGGCAGGTACCTCTGGCCACCCTCCCGAAGGAC  
CTTTGTAAGGCCAGGCAAAAATGGCTTGCTAGGGGACCCAGTGATCTCCAGGGCTTTTT  
CCAACTGCTTCTCTCCCTATATTTGCTTGGCTCTCTAAATCGACTCAGCTCCAGGTA  
AGATCAAAATCTTCTCTTTAATCTAAGCCTTCAGCTTCCCCAGTGGGGGTGTGTGTCA  
GGGGCAGATAATCTCCCTTTCCCACTTCCACAGTTTGGGCACTCACAGTATTTGGGGTGT  
CTCCTGGGTCTGCAGGAGCAATCTGCTTCCCTTCAGGGGTCTATGGATCTTTTCAGGTTT  
GCTGCAGTCATTTTCTGCAGGATTTATTCCAGTCATTCTGGAGCAAAAATGCACGAAGCA  
AGCCTCCACACGTTGCTCTGTCCATCTGAATCGGAGCTGCAATCTTGTCTTACTTCTAGT  
TCGCCATAATCCACTGCCCTCGAAGGTTTCTT

## Sequence 3975

AATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTGGTTCAGTCCAGTAAGGTGGGACA  
ACCCTTAAGTGGGGGCTTCTGTTGTAGTAGATAAGAGACAAAAGGTTGCATTCTTTTG  
AGTTCCTTGATCAGCCTTCCACTGAACACACAATTTAGTCTGGCTCAGTGAGTCTGCATT  
TTACAGAAGCGATAGGGGAAAGGAAGCAATCAGCTATGCAGGTGAGCCTCAGGGGGATGA  
CTGTGAATAGAATGGGAGGCAGCTTTGCCCTAAGCAGTTCACAGCTTGACTTTTTCTTT  
AGCTTGGTGATTGTGGAGTCTCAAGATTTGTTTTCTTTCCACAATCTGAAATCAAAGTT  
CCCTGGGTATCCTGTATTTTCATTTGTACACTTTGGCGCCCTAGTCCAGAGTCTGGAG  
CGGCATAC

## Sequence 3976

CGAGGTACTGGCTTTGGTGCCTTGTCTACCAGGCAGTTGAGTTGGTTACTGCTGGTGCCT  
TTGTGGGCAAACTAGGTTGTAAAAGCAGCCAAAAAATTTCCAGATGGGAGAGTTTCATA  
GCGGGCATATTTTGGCTTGTGAATTGACTGTTATGTCTCAAGGTAGTCTCTTGGTGGGAG  
AGAGTCTGCTCTGTAGCGTCTAACTAAGAGCACATAGTTAGATGAACTTGCCCTGTTGG  
GAGTGTCTGGTGAAGGGGAGATAAAAGATTATAATTGCATTTCTAAAGAGCTAAGTAGGA  
AGCANAGAAAAGGAGAGAGAAGTGAAGACAGAATAATTTAAATAATGAAGAGAGAAATG  
AAGAAGGAATAATTTTCTGCTTTTCCATTG

## Sequence 3977

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGTCGGGCCCTCATTATTC  
ATGGATTCTGTATTTGCAAATTCGCTGACTTACTGACGTTTATTTGTAACCTTCGAGTCA  
ACACTCACGGTGCTTTCTCAGTCCTTTGACAGCGTGTGGAATGGAAAAAATTTGAGTTA  
TATGACGTATATGTTCCAGCTGAGGCTGAGCAAGGCTCACTTCTCCTTGACGCCCTCAG  
ACTATAACAAGTGTCCCTCTTGTCTACTTCTGTTATGATTTTTGCATTTTCATAA  
TCCCTGTTGATGATTTTGTCTGTTTAAATGGCCCTAAGCACGGTCCTGAAGTACCTGCC  
CGGGCGGCCGCTCTAGAACTA

## Sequence 3978

ATGTACA.CANNGCNCATTAATCTNTCNNGTGTGNCATGTATCAATCATNTATAAGATCCC  
AGGCATGGGGC.NNGNTGANCTACTATNTCAGCTTACTTGACTTCTNAACAGGNACATGCC  
CCNTNCTNGC.TTANTTCANTTAACTNGATNCNGTANATGCATGACCATTTGATCGCACC  
ACTCCTTCAGG.AATCCAGGACTTGTCCACACACCGTTCCATTCCCCGCGTACCTGCCCC

## Sequence 3979

TGGAGCTCC.CCGCGGTGGCGGCCGAGGTACGCGGGGAGTGGCAACCTGCTTGGGTCCCTT  
TCCACACCGCGGAAGCTTTGTTCTTTTGTCTTTTGAATAAATCTTGTGCTGCTCACTC  
TTT.CGGTCCACACTGCCTTTATGAGCTGTAACACCGCGAAGGTCCACAGCTTCACTCCTG  
AGCCAGCGAGACCACGAACCCACCAGAAGGAAGAATCTGTGAACACATCCGAACATCAG  
AAGGAACAACTCTAGACATGCCGCTTTAAGAAGTGAACACTCACTGCGAGTGTCCGC  
GGCTTCATTCTTGAAGTCAGTGAGACGAAGAACCCACCAATTCAGACACATTTTGGCGA  
CCTAGATGGGACAATCGCCTATACCGAGTGGTGAGACCATCGCCTATAGCTGAGCGGGC  
AGACAATCACCTATCGCCAAGCAACAAGCAGATGAATGGTGAACGATACAGCNGAGAAA

Table 1

GAGAGAAAGAGGAACATTTGAACGCCGAGAGGAGTTCAACCCAAGGTGGTCCGAGAAGGT  
TGGCCNCCCAACAGGAAGAATATCTTCCGTGCCATNCCCGCTTTCAGCTNTTGCTTCCTT  
CCTTAAGAAGAACCACCTCCCCACTCAATNAAANCCTTGCACTCAACCTCCANNNNNNA  
ANNNNNNNNNNNNNNAAANTNCCCGCCGGGGGGGGCTTTTNAAAAAAGNGGAACCCCC  
CGGGGGGGGGGAANTTNNTNNNANNTTTTTNCCCCCCCCCCC

Sequence 3980

CCGCGGTGGCGGCCGNCCGNCNGGTACACCACACAATGGTGACACAGNCTANTGTGTGG  
NCAGNGTGTGCCACNTTTTNTGCACTATACCCNNGTNTGATGGCTNGATGTNNACTNNTG  
AAANTGTNTCTCAGGGNTNTTCTNTATCNACAGAAACANAANNGAATTACNNNTNCTANT  
TCCTGTCTCANACTGNNNCTTTATGACTNTAAATANATAAANNATCAGATNGNNAGCATN  
NATATTTTNNCTTAGCNCCTATTGCNAAATGCATTATCACTACTGACNTTTTCTTTCTAT  
GCCCTGNTCCCAAANANAACTTANCACTTACATGCTCNCCACTAGCAGAAAGGGATTNN  
CAGGGACCAGAATCTCAGAGAAAAGGAGGGTTCAATCAACATACTGGTGTGAATCCTT  
GCAGCTGAAAATTATCTTGCAAANTTATATGCTGGCCCTTCATTTAAATG

Sequence 3981

GCGGCCGAGGTACCATCGGACCCCTTTCGCTTGCTATTCTGTCTCTTTGCTTAGAGT  
TCGGGGGCTAAATACTGGGCACCTGTGCGCCAGTTAAAGTGACTAGCGCGGCTGCCGGA  
CTAAAGACAAGGGTGTGAGGCTTTCTGGGAAAGGGCTTTCTAACAACCTCCGACTCTTCG  
GTGTTGAGGCCATTGGTTTGCCTAGAACCAGCTTTTGCTTTTCCTGTACCTGCCCG

Sequence 3982

CGCCCCCGCCGGGCAGGTACAAGCCTTGAACATCGTCCTGCTTCCAGTGGGTTGAGACC  
TCACCTTTCAGGGAGCGACCTGGGCAAAGACAGAGAAGCTCCAGAAAGGAGAGATTGATC  
CGTGTCTGTTTGTAGGACGGAGAAACCGCTTGGGTAACCTGTTCAAGATATGATGCATGT  
TGCTTTCTAAGAAAGCCCTGTATTTTGTGATTGCCTTTTTTTTTTTTTTAAAGTGCTTTC  
ATTTTGCCAAAATAAACAGATAATGTGGATGGTTTAAAGGGTTATAGTATTATAGTTTAA  
ATAATAACAACAAAATTCTTCCCAGGAACCTGCTGGAAGGTAAATTAATACTTGTTT  
TTCCATTGGTAAATATTGTTGCACTCTGTGAACCAAAGACAGTCTAAGTTGGAGGACA  
TANAACGGAACCTCAT

Sequence 3983

GACACAGACACACATGAGGAGTGGGTTTAGGAGTGGAAGTTTAAAGATAAAGAAGAGA  
GTGAGAAAACCTTCTCATGTTGAGAAAGACAGTTGCTCAAGAGAGGGTTTTCTGGGTTTG  
GGGCAAGATTGATTGATTTTATACANAGGCTTGAGGAGGCGGTGATTGATATACATAGG  
GCCCCGGGATTGGTTTAAACCAGGTATACTACTTACATAGCCGGTGAAAAGACTGGCCCTC  
CCACCCTAACCTTTTATTATGCAATGCATCTTCTACCTGGCTGTACCATGACATTTGC  
ACACGTGGCTTCACTTCAACAGTGCCATGTNACCCACACACCTGGTGACAAGGAAAAGGG  
AGCAGGAATCACCATATTGAATGTGCCTGGCTTCCAAGTA

Sequence 3984

CGGTGGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGA AAAAAT  
NAAATTTATTGCCTTGTTGGGGGGAAGGGATGTGGTCACCTGNCTACTCCATTACACCTA  
CCTGTGGCTTCTCCAGTGATGGACCANATACTCAAGGAG

Sequence 3985

CCGNNGTGCGCGCCGAGGTACGCGGGGGTTGTGACTAGGAAAGGCATGGGACGACATGTG  
TCCAGGTGAGGTATGTGCCACAGGCAGTTACGGATGTGTTGGAGGAGGAAATTCAGGA  
AGGGGCAAGATCTGGAACGAAGGCTGGAGGGAGGTTCCCTNAAGGATGCTAAGGAATAC  
GCTGAATCCATAGGTGCCATCGTGGTTGAGACAAGTGCAAAAAATGCTATTAATATCGAA  
GAGCTTTTTCAAGGAATCAGCCGCCAGATCCACCCCTTGACCCCCATGAAAATGGAAAC  
AATGGAACAATCAAAGTTGANAAGCCAACCATGCAAGCCAGCCGCCGGTGCTNNTGACCC  
AAGGGCCGTGGTCCACGGTACCTGCCCC

Sequence 3986



Table 1

ACNGATCATGAGTGGAAGGGANATGAGTTAATACAAATGGAAAACANGTTTCATTGTATG  
 AAAAGGAAAGTGAATTAATGCTTTTCGAAAGAGACATTAAANTAGATNTCTGGGCAATAT  
 GAAACTGATAGTCAATCTCGTCAGATTCTGAANGCATCTGTAGATAAGCTTCCAATGAAA  
 AACAAAGGCAAGTGACAATAGGACAAGTAAAGTAAGCTATAATTATAGCAAAGAANGCAA  
 GAGCTAACATAAACTTGCCTATTGTCAATTGTTGAAGTCATANAACACTCTCTTCAACTA  
 CTCTTGTCAAGAGGCTTCTGATGCGATCATCTGTGGTGAGGATAGCTTTTCGAGCC  
 CCATCCCCTTTCCAGGGCCCTGTACCTGCCCC

Sequence 3993

ANACTAAGCTCTTACACACAGTTGCNGNTGAAAGAGGGAATTGCTTGACATGGCCACANG  
 ANNNTGCAGCTTCTGTCAGACATGACANTCAACGCAAACTCATGTCAGTNGGGCAGACA  
 CATGTTTGCAAAGAGACTNAGAGCCANACAAGCACACTCAATGTGCTTTGCCAAATTTA  
 CCCATTAGGTAAATCTTCCCTNCTCCCAAGAAGAAAGTGGAGAGAGCATGAGTCCTCACA  
 TGGAAACTTGAAGTCAGGGAANGGGAGGCTACCAATTATTTGTGCATGGGTTTAAGTT  
 TTCTTGAAATTAAGNTCANGTGTGTCTTTGNGTTTACCA

Sequence 3994

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGCCGAGGTACTTTNTTTTTTTTTTTTTT  
 TTTTTTCCATAACAAAGCTCANGTGTATTATTAAGAATTAATAACTGTAAATAAGCCA  
 TACAGTTCATTTACAGTAACTAAACAAACTTTTTTTTTTTTTTCTTTTCGGGTTTTT  
 TTTTTTTTTTNC

Sequence 3995

CGCCCCGGGCAGGTACTAACAGTCAGGAACAAATAGAACACATAGAGAGGACAGTGGGAGG  
 TCCCCCTGGCTAAAGCAGAGGGTGTATTGAGAGAAGGAAACCTTTCCTCAATGGATCGT  
 AGCAAAGTGAAGGAGCAATAACACCTTGCTTGAGAAAGTTTTGAATGTGATTCCTT  
 GGTGACCACAAGCANGGAGGTCTTGAAAGTCCCTTGCTNCTTTCAGATGCAAAACAAGGA  
 GGCTGTNCCCATTACAAGACTATCAAGGGAATAATGCACTGTTTATCAAAAAGATATG  
 AATGTTCTTTGACAGGCAAAACCCTGCTCAAAATGAAATGGCANTGCCANGGAGATGATA  
 TTCAGTGTGATGCAACTTGTGAAGTACCTTNGGCCCGCTTCTANAACATAAGTGGGATCC  
 CCCCCGGGCTTGAAGGAAATTCGATANTCAAAGCTTATTCGATACCGTCCAACCTTCGA  
 AGGGGGGGC

Sequence 3996

CGAGGTACTTTATTTTTTTTTTTTTTTTTTTTTTCTTTTTTTTTTTTTTTTTTTTTT  
 TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNTAAAGCCNNAAAAAANTTTC  
 NTTTTNGGAAACTTTGAANNNTNAAAAAAAAAAAAAAAAANNNCCNNGNGNAANTTNGN  
 NNAAANTTTTTTCAAAAANAAAAGNGCCCNAAAAATTTANTTTNAAAANTCCNNTTCT  
 NCAATAAAAAANANGGNAAAAAATCTNAAAAANNAATCCCCCGACAAAAAANAN  
 TGGGANGGGGNNCCCCCTACNANAAATCCCCCNCCCCTTNAAAAAANNGGNCCCCC  
 NGGGGGGGGAAAAANAACNAAAAAATTTTTTCTTTANCNAGGNTTATGGGGGNNNCC  
 CCCNNNNNNNTTTTTTTTTNNTTTTNAATGNGGNNAAAAAAATCCCCCGCCNAAAAA  
 NTCTAAAAAANANNTTATCCCCNGAAAAAATTTTAACTTCCAANNATNTCCNNA  
 AAAAAAANCTCCCTGAAAAATNAANAGGNNCNCNCCCCGGGGCCNTTTNANAAN  
 NGCAAAACCCTTTTTTNNGNTTANTTAAAAAANCCNNTAAAAAANNAAAAACG  
 CGNCTCCCCATTTTATANAACCCCCCNCCCCCAAAAAANANGNTTTNTTTNTTA  
 ACCCCTTNTNAAATTTNTAAAAAANAGGTAAAAACTGTTTTCNGAACGGGN  
 TTAANNCAAAAAAGNCTTTTNNCNTTCCCCNAAANGGGCGGNANCCCCAAAAAA  
 A

Sequence 3997

CTCCACCGCGGTGGCGGCCCGAGGTACCCAGCGTCTCTTGATTTCATCTTTATGTTGATG  
 TGTATTGGGTGTTGCGCTTCACTTATAAATGAGAACCTGCAGTGTGTTGGTCTTCTGTTCT  
 TTGCCTCAGTTGCTTAGCAGAGTGCGCTCCAGTTCACCCATGTTCTACCCGAGGGCAT



Table 1

GATTTTGTCTGTGTTTGATTTTCCTTAGTGGCTTTTAGCATTCTGTGATGTATAGGA  
ACCACATTTTAAAAATCCAGTTTCTGTTCTGGGCATCTAGATCAAGTTCCACATCTT  
TATTCCTGTCACTAACACTCCCGTGGACGTGTGAAGTGTACCGTGTCTTTTGTATAGACG  
CATGTGTTTTTC

Sequence 3998

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTGGGCACAGAAAAGTGT  
TTAATTAGGGTAACAGAAAGCAGCTGCAATACAGAGTGATGAATGTGAACTTTGAAAGTA  
AATTTGGTGGGTTTCAGGATTTCTGAGGAGGGAAGTCAAACAGTTCTAAAGAGTTGGCAA  
GGCCAATTGAGAGGGTGGTAAGCTATCCTAAGCCCTTTCTTCTACATTAAGTCTGCTTTC  
CAGTTAGTCTTCAGGTGCTTTAGAATTTGAGATCCTTTTTTCTCATTGNGTGGCCATGGA  
CTAGAAGTATTAGCACTACCTGGAACTTGTTCAAAATGCAGAAATCTGGGCCCCAAAAC  
AGACCTACTAAATAAAAGTCTCCATTTTAAAGAGATTGCTAAATGATTCATAACTTGTTA  
AAGTTTGAGAGGCATTACCTTAGATTCTGNCTTCTTACCTTTCAAACCCAGCTGAAA  
GTGGGGTTGTATTTCCCTTACTTT

Sequence 3999

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGACTTTTTTTTTTTTTTTTTT  
TTTTTGCTAAATTTTAGTATCAGGATGATACAGGTTTTATAGAATGAGTTAAGGAGGAG  
TCCCTCTTCTCATTTCAGGGCTTATTTGACTGGTAGGTTTTAATACTGCTTCAATTTT  
ATTACTTGCTTCTGTTCTATTCAATATTTCTGNTCCTTCCTTGNCACTTTGNTCAGTC  
TTCTTGNCAATTCCTTGNCTTCCATTAATTTATTCAATTCCTCTAGTTTGGGTAAAT  
ANATATGCTTATAGTAGCTTCTGAGGATCTTTGTATTTCTGNGGGATCTATTGNGATGT  
CACCTTATTAATTTCTAATTGGGCTTGGNTGGANCTTCTTTCTTTTCTTTGNTAATC  
TAGCTAGGGGTCTATCAATCTTGNCTTATCCTTTCAAAAAACCACTTTTATTTT

Sequence 4000

CCCCGCGGTGGCGGCCGCCCGGCGCAGGTACTTCCATTTGCCTTCCTGGTTAAAGATTGG  
TGCCTGGCCAGAAATGCCTGTGAACAGCTGTGGTTAAGCTTCAACTGTAAAAGACAGA  
CGGAATCCTGCTGCATCCANAGCTNGAAGTTCTGANGTTCCACTGAAATCACAATGGAAA  
GTCTTGACTTGACTGGTCACAGTAATGAAANGCAGTAATAGAAATAAGGATCATTCAGCA  
TAAGGAGAAGGGGTTG

Sequence 4001

TTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTCTGCTAAAACGAAAACAGGTAAAAAC  
AATGAACAGACGGTTCACGTTAAGAGGAATACGAAAAGCCAATAACAATACTGACATAAC  
AATCTTATTTGTAATGAAAGAAATACAAATTTTAAAAATGACATACCATTTTTTAATTAC  
ATTGGCAAAAATTAACCAAAAAGAATACCTACAAITGACCAAGGAGTATTCTGGCAGGG  
GGAGGGAAAGTCACATACATATAGTACCTGCTTTTGCCGCTTCTGGTTTTTGACAGATCC  
ACTACTCCCCAGCTGATTACACCAACTTGAATGAAACGACTTCTCTTGTAAGTATCAAG  
GGGCCGCCAGAAATCACCTCTGCAAGTATTGGGGTCAGCATAGGGACTCACTCCTCCAGTA  
CCTGCCCG

Sequence 4002

CGAGGTACACATCAAACACTTCATTGCCTAAATGCAGGGACATGCTTCCATCTGACCACT  
TGACTATCCGAGCATTGCTTTCTTTAATTTCAATTCCTTCTTCATCTCGGCGTATCCTCC  
ATCTTATAGTATTTCTACCTTTAATTTTAACTGCTTCTACCTTCTTCATCCAGCATT  
CTTCATCTTCAAATTCATCTTCATAATACTGAGGATCAAAAGGTCTGGGCTCTACACTGA  
GAAAGTTGGGCAGTTTAACAAAATATAAGTCGTTTCTAAATCAGTGTTTACTTTGGGTA  
TTTCTACTTCTATTCTGGTCTCAGGAATGGGCTCCTCTTCTGTTGATCCTGAGGCAAT  
CCATTTTTCATCAACAGGCTGTNCTGGAGTAGGTGGTTTGTCTTCTCCATCACTCCCTGAA  
GAGAAATCATCTGGCACCTCCAAATAAATCCATGGTTCCACTATTATCTTT

Sequence 4003

TTTATTGGTTGGGAAAGGGAGAAAGCTGTGGTCAGCCCAAGAGGGAATACANAGTCCCTA

Table 1

AAAAGGGGAGGGCAGGTGGCTGGAACCAGATGCAGGGCCAGGCANAAAACCTTTNTNTCCT  
CACTGCTCAGCCTGGGTGGNGGCTGGAGCTCAANAAATTGGGA

Sequence 4004

AGGTACTTTTTTTTTTTTTTTTTTTTTTTGTTTGAGACAGAGTTTCACTCATTGCCAG  
GCTGGAGTGCAATGGCGCAACTGTGGCTCACTGCAACCTCCACCTACTGGGTTCAAGCAA  
TTCTCCTGCTAGCCTCTGGAGGAGCTGGCATTACAGGTGCCCGCCACCATGCCAGCTAA  
TTTTTGNATTTTTAAGTAAAGACAGGGTCCACTATGTCGGTCANGCTNANNTTGAACCT  
TTGACCCCCANGNANCAACCNCGCTTGGGCTCCAAANGGNTGGGANTACAAGGGNGGANC  
CNCCANNCCNANNNCNNCAACANGTTAAANTCACNGGGANGCCNTGGGCCCTTTTGA  
AAGCCNGCTTTNTNTTTTTTTTGGGGGGG

Sequence 4005

CNGGGCAGGTACTTTATTTTTTTTTTTTTTTTTTTGAGACGGAGTCTCGCTCTGTGCC  
CAGGCTAGAGTGCAAGTGGCACAATCTTGGCTCACTGCAAGCTCTGCCTCGCGGGTTACG  
CCATCCTCCTGCCTCAGCCTCCTGAGTAGCTGAGACTACAGGTGCCCGCCACCACGCCCCG  
GCTAATTTTTATATTTTAGTANAGACGGGGTTTACCGTGTTAGCCAGGATGGTCTCG  
ATCCTCGACCTTGTGATCCGCGCCTNGGCCTCCCAAAGTGCTGGGATTACAGGCGTGA  
GCCACCGCACCCGGCTGGAGGAGTATCTTANAAAGGCCTGGACTGGGTCTCCCCAATNC  
CTCAAGGGGAAAAGCAGAGACTAAATCAGCATCACCCACTTACGTGGGTGANANATAGG  
GGCGGGTGACCCCACTNTTCACTATACTNCCGCGTACCTTGGCCGGTTTANAATA  
AGTGGGATTCCCCCGGCTTGNAGGAATCCAAATCAAGCCTATCGATACCCGGCNAACC  
TCGAAGGGGGGGGGC

Sequence 4006

AGGTACTCTCTTTCTCTTTTCTTGGTTGCTGTGAAGGAAGTCAGCTGCCATGCTGTGAG  
CTTCCATTGAAGACAGAAGTCTTCTTCTAAATGCCACGTGAGTGAGCATGGAAGTCAAG  
CCATGCAATGCTGCTCACTCTGGCTAGCACCTTGATTGCAATCTTCTGAGAGGCCCTGGTC  
CAAAGTCACCCCTGCAAACCAATGCCAGAATTACTGACATATTTATTCAAGCTAATAA  
ATTATAGGCGTAATTTGTAATATGCAGAAATAGATAACTATTACCGTAGATCAAATGAAA  
AAGATTTCCCATGTGCAGAAACCTACATAAATCTTTTNTTACAGGACANTCTTATTCT  
AATCAATAACATTTGCTTTAANGCAGATAATCCTCCAAGTTTTCTAATGATATCTGAAA  
CTATTAAGTATTCTGTGAATTATGAAATCTGAAAAGGAATTGGAAGTTGCTAAAAATCT  
ATCATTTGCATTGACCAAGTGTGAAGCACAAGTGGGAATGAGAATGCGTGCCCTGACACCA  
AAGAAAAAATAAGTGACTGGAAAGCTGAANAATCACCGGCTTCAGTGACATGGAACCCAG  
TNGATTNGATTTTTTGGACNAAGTATCGGGTGACTTTGANGGTGGCAAGAAAACCACT  
TTAAGAACAATGTCCAAAAGGGGG

Sequence 4007

CCGCGGTGGCGGCCGAGGTACTGGGAGTGATCACTAACACCATAGTAATGTCTAATATTC  
ACAGGCAGATCTGCTTGGGAAGCTAGTTATGTGAAAGGCAAATAGAGTCATACAGTAGC  
TCAAAGGCAACCATAATTCTCTTTGGTGCAAGTCTTGGGAGCGTGATCTAGATTACACT  
GCACCATTCCTAAGTTAATCCCCTGAAAACCTACTCTCAACTGGAGCAAATGAACCTTGG  
TCCCAAATATCCATCTTTTCAGTAGCGTTAATTATGCTCTGTTTCCAAGTGCATTTCCCT  
TCCAATTGAATTAAAGTGTGGCCTCGTTTTTAGTCATTTAAATGTTTTCTAAGTAATT  
GCTGCCCTATTATGGCACTTCAATTTGCACTGTCTTTGAGATTCAAGAAAAATTTCT  
ATTCTTTTTTTGCATCCAATTGTGCCTGAACCTTTTAAATATGTAATGCTGCCATGTT  
CCAA

Sequence 4008

CGCGGCCGCCCGGGCAGGAACCTTTTTTTTNTATNCANCTCTTTTTTGGNAGAGANNTNGT  
CTCACTATGCTGCCAGGCTGGNTTCAAACCTCTGGGCTCAAGTGATCCTCCACCTTGA  
CCTTCAAAGTGCTGGGATTACAAGTGTGAACCACTGCTCCAGCCTGGGGAAGATTTCT  
TAAAGTGTGGTAAATGAAGTTAATTGGGCCAAGTCCAGAGCCTCCACTCTNCCCTGCC

Table 1

CAGCTCACAGANATAGGCAGGAAGTCTCACACCTTCAGAGGGGACACTTCCTCCAGGGAG  
GCCTCCTGGTTGAATCTAGGCCACAAGGAACATTTCTATCTTCCCATGCCTAGCACCAA  
CTGTTCANAGAGTCCANACCCTGTGGCCTAAGGAGGCCCAAAGAGTTGGGGGGATTCTGA  
CACACACTGNCTGGCAGGCGGCTGCTG

Sequence 4009

CTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACGCGGGT  
GTTATTGAAAATTACAGCAAAACATAGGTGTGATTGCAGCATTACAGTTGCAGTCCCTTGC  
TGCGGGTATCTCCTTTCATTACTTCAGTGATTAGGGTGAGGCACAAAGAGTTTCTTGATC  
ATCCAGAGAACATTGACAGACAATTATGAATAATAAAGATGTTAACAATCCATCTGTATT  
TAAACACTAGCAGCCAGATCTGCTGCCATGATGCCTATTTGGTGTGTTTCTGATTAAAA  
TGAAATCACAAGCTGCCTTGTAGCCTGCTTACATTGTAGGTGGCCCGCATTTCAGAA  
AATAAACGTTATGCATCTAGATGGAAAGCTGCAGCCAGAACTCTCCAGAGGATGAAGGACTTCTGATA  
TAAAGCTTCAAAAATGATGGGGATATGATCATAGATTTTAGTCTTACTAATCTGAATCA  
CATATTAATCAGGGACATTTAAAACTTTAACCCAGAGGCTTGAAGGGCTCACACCGTATA  
ATCCTAAATGCCTTTGGAGAGGCTTGAAGGTAGGANCCTTACCCCGGGGCTTGGGGAA  
GGAAGTTGGGAGACCCAGCCTGGGATGAACATAAATNGANAATCTTGCCTCTACTTNGGA  
AAAAAA

Sequence 4010

ATANGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACGCGGGAGTCC  
AAAGGCATCCCGCCTTCTGTGCAGACTCACAAGTCCCTGTGGACGGAATTCTTGAAGTGT  
AGCGCCGCTCAGTCTTCCACCGAAGTGTCCGATCGGAATCAGCCCTGTCCGAGAGATG  
GCTACAGAACCAGAAAGCTGCAGCCAGAACTCTCCAGAGGATGAAGGACTTCTGATA  
GTGAAGATAGAAGAGGAAGAATTTATCCATGGGCAGGACACTTGCTTACAGAGAAGTGAA  
CTCCTTAAGCAGGAGCTCTGCAGGCAGCTTTTTAGGCAGTTCTGCTACCAGGATTCTCCT  
GGACCTCGCGAGGCACTGAGCCGNCCTCCGGGAGCTCTGCTGTGAGTGGCTGAAAGCCAGA  
GATCCATACCAAGGAACAGATTCTGGAAGTCTGGTGTAGAGCAAGTCTGACCATCCT  
GCNAGGAGATTTGCANGCCTGGGTACCCTCGGN

Sequence 4011

CCGCGGTGGCGGCCCGAGGTACGCAGGGAGGAAAAGTCCCGGAGAGCTGAGCAGTCAAG  
ATGTGTGACTTCACCGAAGACCAGACCGCAGAGTTCAAGGAGGCCTTCCAGCTGTTTGAC  
CGAACAGGTGATGGCAAGATCCTGTACATCTGGAACGGCCACGCCGTGATTGGGAAGCAG  
CCGAAACTCACGGATGGGATACTTGAGATTATCACTAAGGCTGAAGAGATGCTGGAGAAA  
GGCCCAGAGAACGAGTACCTGCCCG

Sequence 4012

CCCGCGGTGGCGGCCCGCCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTTTTTTGGGGTA  
CCCANTCTGGAATCATTGGTGGGACAGAGTTAGGAGANAACCAAAAAAATTTATCTTC7G  
GGATATTGTAGGATGGCTGAGATGGTGGTTAGGTNAAAGTTNTTCCAGAACTCTGAACT  
GGAACCAAGTTTTATTTCCCTCAAAAAGGGTGAGAGACCATATTACTATATTAGCTAA  
GTTNTGANATTCATAGATGCTTATTTAGGTCAACTAAAATCCTAATCACCATTACAACT  
ATCTCTCTATGAANAAACATCCTCCAAATTTGAAACAAATAACTTATAAACATTTTGTGA  
TCTAATCTGTTCAATAATTANTTATTGCTCTGCTCTGGCATAATAAGTTAATAAAAAATTC  
AAAGCTGACAGCAATTTTTGGCATAAGGGGTATCTATAAGTTTNTGCCCTAAGTTTTC  
TATTAATAAATNTTTGAGTTACTANCCCCAACTAACCTGGGANGCTTAGGCTGCANTGAA  
CCCCAAATTGACCCCTTGCCCTNCAACCTGGGGCAACANANCCAGGANCTGTCTCAAA  
AAAAAAAAAA

Sequence 4013

TGNAGCTCCCCGCGGTGGCGGACTACAGAGCCCCGAATTAATACCAATAGAAGGGCAATG  
CTTTTAGATTAAAATGAAGGTGACTTAAACAGCTTAAAGTTTAGTTTAAAGTTGTAGGC  
GATTAATAAATTTGAAGGCGATCTTTTAAAGAGATTAAACCGAAGGTGATTAAGA



Table 1

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTTTTTTTT  
TTTTTTTTTTTTTTTTGGTTTGTGTTTGTGTTTGTGTTTGTGTTTGCANCCCNAGGAGT  
TTTAGCCAATTCAAATGCCTTGCTNCCCACAATTTGGAACATTCTTTGGATTGACCAA  
GTCAGGAAGAGATGGGAGAAAAGTGAANCAACAAATNAAACCCCCAACATAAAACAAAA  
AANGAGTTTAAGCAAAAACCAAACCAATTGCACAAATTTCAATTATTGATTAAACCTNGA  
AGTNGTTTCTAAATTGGGTAAAGGGGAGGGAAATTTAAAAAANGCCANGCCTTGGGTTG  
GGGGTTAAAAATCCTTTNAAAAATTTTTTANGTNNCNTTTAAAAACAAAAA

Sequence 4020

CCGCGGTGGCGGCCGAGGTACACTTTCACTGAGTCCAAAATTAGGAGCAAAAATACAAAG  
GTTACATTGGTCTTAGGTAGGATACAGGCGAAAAAGGATTGAGCTGTTTAGCTCAGAAA  
CAACAAAAACAAAGTTTCTAAAGCACCTTAAATTATATAAAATCAAGACCATGGACGGA  
TTGAAACTGGTATTCTGGTGAAATACTTTACTATTTGTAAAAAGTTTACAAAAATTA  
CAAAATTAAGTATCAACCCTCTGAGTTCAAAGCAGCATTTTGAAAATGAAGTGGTAGTT  
AATCCTGTACCACCCTTAGAGTTGTAAGTGGGACCTTGGGAATAGGGGATGGATGGGTTG  
CCCCTGGCTGAAATTTCTNGAAACNTTCTAACTTCTGGCCTGTCCCCTTCCCCGTAAG  
CACTTGTCTTTGGNAATACTGGTCTTTGTAAGAGTGGTGACCGGTAAAAATGA

Sequence 4021

GGCCGCCCGGNCAGGTACTTCTGTAAATGACAGCCTTGCCTTGTCTCATGGCATCAT  
TCAAGGTCATCTTAAATGAGAGAGGAGGGAAAGAAAAAGAAATCATACGTTATGGT  
TTTCAAATGCATCCAGAGGAAAGGCAGGGTTGTTTTGAAAAGTTACTTCTATCTGAAA  
GCTTCTAGCAAAT

Sequence 4022

CGAGGTACCTACGAGGGTGAGAACACAGTGCTCTACCTGCAGGTGGCCAGGTTCTGGTG  
AAGAGCTACCTGCAGACTCAGATGTCCCCTGGCTCCACGCCACAGAGATCTCTCTCCA  
TCTGTGCGATATCTCACCGCACCTGACCTGGCCAGGTGTCCAGCCCAGAGGGCAGCCGAC  
TTCTCTGCCCCGAGCTCTACACCACGGCCTGGGCACATGTGGCAGTAAGGCTCATAAG  
GACTCAGTGCAGCATTTACAGACCCTGACGCAATCCGGAGCTGACCAGCACGAGGCTTG  
AACCAGGCCACTGTCATACACCTCCAGGCTGCTAAGGTGCACTGCTACTATGCTCACTGTG  
AAGGGTTTTACAGAAAGCTCTGGAGAACTAGAAAAAGAACAGCGATTCAACAGGTGCTC  
AAGCGCCTCTGTGACCTCCATGCCATACATGGAA

Sequence 4023

CGAGGTACGCGGGGATCCAGAATACATTTCCAACAAGAGCACTGGCCAAGTCAGCTTCTT  
CTGAGAGAGTCTCTAGAAGACATGATGCTACACTCAGCTTTGGGTCTCTGCCTCTTACTC  
GTCACAGTTTCTTCAACCTTGCCATTGCAATAAAAAAGGAAAAGAGGCCTCCTCAGACAC  
TCTCAAGAGGATGGGGAGATGACATCACTTGGGTACCTGCCCC

Sequence 4024

CCGCGGTGGCGGCCGAGGTACTTTNTTTTTTTTTTTTTTTTTTTTTNTTAANTANTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTNGGGGGGGNNNANGNNNCTTTTTNTNGNAAAAACNCCNNNN  
CNAAAAAANNAATTTAAANAAAAANCCTNNNNGGGNANNANGNACNAAAAANTTGNN  
NAAAAACNNCCGGNNAAAAAACNCCNNNGGGNAAGGGGNNCCNANCNTTTNCTCCCCG  
GGNTTTTNAAAAAANTAAGANCCCCCNGGNNGNNGNAANNCCNNTNACAACCTTTTAAAC  
CCCCCANCCCTNNGGGGGGGCCCCCCCCCATTTTTTNNNNNTTTNTGGGGGGGTNNTTT  
CCCCCTGGAAAAANTAAAGGGCCNAATGNTTCCNGNNGAAAAANNATTNACGGTAAAA  
AATNGCANANAAANNAAGNNCNNNGACAAAAATNANANAACCNGGGNGNNCCCNAGGN  
GGCCCNCCNCCAAATNNANGGGNCGCCCCCTCTNCCCCNTTNCNAAANGAAAACACTNAG  
GCCCTTTTTTTNTAANAAACCCCCCCCCCNGNGGGGANGGCGTTTTTTTTTTGGGCCCT  
TTTTNNCCTTTTTNCTAAAAAAATCNTAAAGCNGGGGGNTTG

Sequence 4025

Table 1

CCGCGGTGGCGGCCCGAGGTACTTTTTTTTTTTTTTTTTTTTGGGCAGCTAAAATC  
TAGGATGGTGTTAAGTTTCTTCATTTTGTCAATTATATATAAAAAATTAGAAACAACATG  
AATCTGCATTTCTTGGATGAGATAGTAATAACAACTATTTCTCAATATTTGTATACTAA  
AACTAGTGAAGGTGTTATGTGTTTCAGTATCTTATCTTTTGAACATGGGTTTCTG  
AAAGGAGCCTATATAATAATATAAATGGTATGTAAGTAAATGAGGCACTGTCTTGGCTGG  
GACTGCTATAAAAAAATTACCATAGACCATTGACTAAACCACAAACATATACTTCTCACA  
GTTCTGGAAGTTGAAA

Sequence 4026

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGCAAGTGAACATG  
CCTGCAGATTCATTTGAATCTCCATTGACGCTAGCTGCCTGTGGAGGACATGTTGAATTG  
GCAGCTCTACTTATTGAAAGGGGAGCAAATCTTGAAGAAGTTAATGATGAAGGATACACT  
CCCTTGATGGAAGCTGCCCGGGAAGGACATGAAGAAATGGTGGCACTACTCTTAGCACAA  
GGAGCAAATATAAATGCCAGACAGAAGAACTCAAGAACTGCTCTTACTTTGGCTTGC  
TGTGGAGGATTTTCTGAAGTTGCAGACTTTCTTATTAAGGCAGGGGCTGATATAGAATT  
GGCTGCTCCACACCTCTGATGGAGGCATCTCAGGAGGGACACCTGGAATTGGTTAAATAT  
TTGCTGGCTTCTGGCGCTAATGTGCATGCTACAACAGCAACAGGAGACACAGCCTTAACC  
TATGCTTGTGAAAATGGACATACNGATGTTGCANATGTTTTACTTCAAGCA

Sequence 4027

CCGCGGTGGCGGCCCGAGGTACATTGTAGGATGCTTACCAGATCCTGCCCACTAGAGGCC  
AATAGCACCTCATCATAGCACCCCTTCCCTCAGTGATAATAAAAAATGTCTCCAGAC  
ATTGTTTAAGTTAATAAATGTGCCAGAGCCAGGCACAGTGGCTCAGGCCTGTGATTTT  
AGCTCTTTGGGAGACCGAGGTGGGTGGATCACTTGAGGCCAGGAGTTCCTAGAACGTTCC  
TCTGTCAAAAGACAAAATTACAACAATTTAAAATCTAATTTGGCTGTTATTGGCCATTCT  
AGAATTGGTTGACATCTCATTCTATGAAATACAATGAGTGCTCTTCAATAAGCTGAGCAG  
AGGGGGGTTAGCTTTATTGGCAGAAAAGGGCTAAAGAAAACAGAAAAAAGAACAAAAAGT  
GATTTGGTTGTTTCAGAAGTTACTTTT

Sequence 4028

CGCGGTGGCGGCCCGCCCGGGCAGGTACCAACTAACCTCCCGCTCTTTATCTCCCCAACC  
TTCCCACTCCCCAGCCTCTAGTAACCATTATTCTCCTCTACCTGTGAGTTGATTTTGACC  
TCCCACATAAGAGAATGTGGCAAGTATTTGTTTTCTGTGCCTGGGTATTTTCATTTAAC  
ATACTGTCCTCTGGTTCATCCTTGTGTTGCAAACGACAGGATTTTGTCTTTTTTATG  
ACTGAATAATATTCATAGCCATATACATACCATGTTTTCTGTATCCATTCAATCGTTGA  
TTGGCAGTAAGGTTGATTCCATATCTTGGCTGTTGTGAATATTACTGCAGTAAACATAGG  
AATACAGATATCTTTCCATATACTGATTTCTTTGTTTTGGATATATACCCAGCAAGTG  
GGCTTGCTGGATCATATGGCAGCTCTGATTTTAGGTTTTTAAGGATGGGTTTTTTTTGC  
AATGAGAATAAAAAATTTCCATGTATAAGATCAAGTGCTTTGAACTTTGGTTATATCCT  
TTGCCCATTTTTCTATTGAGGTCTTTTTT

Sequence 4029

GCGATTGGAATCCCCGCGGTGGCGGCCCGCGGGCAGGTACGCGGGTCTATATAAATCCAA  
GACAAGCAACAAACCCTTGATGATTATTCATCACTTGGATGAGTGCCACACAGTCAAGC  
TTTAAAGAAAGTGTTTGCTGAAAAATAAGAAATCCAGAAATTGGCAGAGCAGTTTGTCT  
CCTCAATCTGGTTTATGAAACAACAGCAAAACACCTTTCTCCTGATGGCCAGTATGTCCC  
CAGGATTATGTTTGTGACCCATCTCTGACAGTTTANAGCCGANTATCACTGGAAGATAT  
TCAAAATCGTCTCTATGCTTACGAACCTGCAGATACAAGCTTTGGTGCTTTGACAACCAT  
GAAGAAAGCTCTTCAAGTTTGCTTGAAAGACTGGAATTNGTAAAGNAAAAAAAAAATCTT  
CCAAAGCCCCCTTTTGTCTGGCCAGGCCCTTTGAGGACCTTTGAAAAACCAAGAAAGAA  
AGTGNTGAAGAAAGACTGGCTTAGGTGGTNGGAAACCATNAGTGAACCACACCTGGAT  
TTNGGGTTATTGGGTTTAAATGGTTCCAACAACTTTTTTTTTTAAGGAAAAAACAAAGG  
TTTTAAGNAAAAATTTTGGGGTTTAAAGGTNGTACATTGGTGGTGAAAAACCAATATTT

Table 1

GTTGTTCTTNCNTTTGGNGAGCCCCNGNAATTTTCTTAAAAAAAAAA

Sequence 4030

CCGCGGTGGCGGCCCGAGGTACTGGAAAGATGAACTGATCATATGGAGATGTCAGCCTTG  
TAAATCGAAAATAAAATTTCTAAGCCCCCAGTCAACTGAACAGACTTTCTTTTGGCCAA  
AGAGATCCCCAAAACCTGAAAATAAACTAGTTCAGGAAGGCAGGGGGCAGGGGCGGTTG  
GACATGTCTCATTACACCCTCTTCCCTCTGGAGGTTAGACAAAATTGACTAGTGTTAACA  
TTAAAATAGAGATCTTAAGGACTGACAAAACAGACTCTGTAGCAATAAGACACCAAATTC  
CAACCTGATTCTAGTGTAAATCACATGACAGATAGTGGGTCTTAAAGGAAATCAAAGTA  
TTTTGCTCCAAAATATACTTCCCTGACATATTTTGAAATGGGCCTGAAAAGCTATCTCTT  
GCGGGGGAA

Sequence 4031

CGAGGTACTTAACTAGGGTTAAGCCCCAGGTCAGGAGGGGTGGATGCCTTATTATGGGAT  
TAAGTGCCCTTCTAAGAGGGACAGTAGAGGGCTTGTTTCATGCTCTCTCTCCATGCACA  
AGAAAGAGCACACAGTGAGAAGGAAAGAGGCCCTCACCAGAACCTGACCATGCTGGCACC  
CGTGATTGCAGACTTCCAGCCTTCAGGATTGTGAGAAAGATAAATATCTGTGGGTAAAG  
TCACCAAGTCTGTGGTGTGGTTTATGGCACACAAGGGAACCCAGAATATGCTTTTCACCA  
CTGGGTGGGCCAGCCTTTTCATGGAAACTGTCAGCTTCTTAGCCCTTGCAAAAAAATGCTT  
GCTGGTCACTCTCTTTGGTCTTTTAAAGGCCCTTCTTAGTGNGCCTCTACCAAGCCC  
CTTGACTTCATCCTTTTCTGTGCCANGNAAGGGTGAGTNAAGGACCTTGNCCCGGCCGG  
CNGCTNTAGAACTAGTGGGATC

Sequence 4032

AGGTA CTGCCAGAAAA CACTGAGAGAAAA CACTGAAATTGAAAA CACTTTCAATTTA  
TTTGAAAGATACTTTCAAAGAAATTTTCATACTCAAATGTGTTTCTTTTTCCAGAGA  
AGTATATCAGAGAATTCCTGGTAGCAATGGACTTCTCAGGCCAGAAAAGCAGAGTTATA  
GAAAAATCCCACTGAAGCCCTTTCAGTTGCGGTTGAAGAAGGACTCGCTTGGAGGAAAAAA  
GGATGTTTACGCCCTGGGCACTACGGTAGCCCCACTGCCTCTTCACAGAGCTCTGCCACA  
AACATGGCTATCCACCGGCTCCAGCCATGTTTACCACCAAAATTTCTAGAGTAGGCG  
TCAGCGATTGATTATTCAGCAAGGACTTGTGGATGGAGTTTCTTGGTACCTGCCGGGC  
GGCCNGCTCGACCTGCCATAACCCAAATACCAAACGCCCTCTTCGTCTGATCCGTCCTA  
ATCACCA CAGNCCTACTTCTCCTATCTCTCCAGTCTAGCTGCTGGCTTCACTATACCT  
ACTAAACAGACCGTAACCTTCAACCCACCTTTTTTCGACCCCGCCGGGAGGAAGAGACC  
CCANTTCTATACCCAACACCTATTCTGATTTTTTCGGC NNCCTGAAAGTTTATATNCTTT  
ATCCTACCCGGCTTNGGAAAAATCCTCCCATATTTGTAACCTTACTACTTCCCGGAAAA  
AANA

Sequence 4033

[illegible]

Table 1

## Sequence 4034

CCGGGCAGGTACTTTTTTTTTTTTTTTTTNTGCTGTCTCTCTCTCTCTCTTTTTGACAG  
 GGAAACAGCTATCAGGTTTCTGGAACATTCTTGAATAGCTAATTCCTGGAGTCCTTGTC  
 CTCATTCTTCTCCTCTGTACCTCACTGGCATTGCTCCAAGATCTCTTTCAAACAAC  
 GTCCTGGCACTGAGCTGAGATTTCCAAATGTTAACTCCCTGGCATCCATCCTGTAGGTGC  
 AGAAAGGATTCTTCCCTGATTTGCACACAAACCTTTTCATTCGATGCATATCAGGGTCA  
 TCTCGGCTTTGTGCCTTGCCTACAAGGTGGTTTGGAGGCCAT

## Sequence 4035

AGGTACTTTTTTTTTTTTTTTTTTTTTCTTGGCTGGAGGCGGCTGTTGCTGCGTAGGC  
 ACTATGATAGGTGCTGACTGATACACCGGCTGACTTGGGTAAAAAGGCGTTCCTTGCTTC  
 TGGTCGCTAGCTGCAGTGACAGGGGTGCTGGCAGCAAGATGAGCGCTCTCCACAGTCCCA  
 TAAACCACAGGGCTGTGCTCGGGGACCTGGCTGGGCAGCTGAGGAGGAGTAGGTGTGGAC  
 GTGGGTCTTCTATGGGTGGAGTAGGATTTCTGCTGCCACCTCCAGACATAATCTCCTCT  
 GTTATGTCTTTACCTCCCTGGTTTGGATCCCGAATTCT

## Sequence 4036

GTACGCGGGGGAGGTGAGTCCGGTCCCTTTTGCATCCCTACCCCGACACTGCGGGTTGTC  
 ACAACGGCACCCCTCCCGCTTTCTCTCTGCCTCGGATTTAGTCNGTGACTGTGTCTCCG  
 CCGNGGTGCAGCTTCAGGCCTNTCCCGCATCTACTNTCTCACGCTCCGCTGCGGCCTGA  
 GGGAGGGCGGGCGGCANGACCACNGACCGGGTTGGCATACCGTATNAAGGACAGTAACT  
 ACCATGGCTCCCGAAGTTTGNCAAAACCTNGGATGCGTGGGCCTTNTGGCCCANGCAGT  
 CTGCGAAATCATATTGGNCTGNAGCATTTTANGCTATCCCTG

## Sequence 4037

AGGTACTTTNTTTTTTTTTTTTTTTTTTGGTAACAGATCTAATCTTCCACGTAAGCC  
 TCTTTACTGGANAANAGTAGATGGGAGGGCAGGTGGGATCTATTTAGACAAATCCNATAT  
 ATTCAATGATTAGTAGGCAANAATTCCTCCTGGTAACNAATCTGNGTGTCAAGGTC  
 CTTACCTTGGCTCTCACTGTCTCAGGATTATGGANGGGAAGATGATGCAGAATTCNGCA  
 CATGTCTTCTGGATCATGGGGGA

## Sequence 4038

CGGCCGCCCGGGCAGGTACGCGGGGGGTGGAGGGAACGTCTGACAAAATTCAATGTTTGG  
 AGAAAGCGACATCTGGAAAGTTGGAACAGTCAGCAGAAGAAACACCTAGGGAAATTACGA  
 GTCCTGCAAAAGAAACATCTGAGAAATTTACGTGGCCAGCAAAAGGAAGACCTAGGAAGA  
 TCGCATGGGAGAAAAAAGAAGACACACCTAGGGAAATTATGAGTCCCGCAAAAGAAACAT  
 CTGAGAAATTTACGTGGGCAGCAAAAGGAAGACCTAGGAAGATCGCATTGGGAGAAAAA  
 GAACCCCTGTAAAGACTGGATGCGTGGCAAGAGTAACATCTAATAAACTAAAGTTTGG  
 AAAAA

## Sequence 4039

CCGGGCAGGTACCTGTTGGCTTTCTGCAGAGATGCTTACTTTTCTCTCCTATCAGAGTT  
 TAATGTCTGGGACTCTGACATTTTGTAAAGTGTCTTCTTAACCCGAGGGCTGTCAGCC  
 TTGATGCAGGATTGTGAGCCAGCATCTGTGTCATGAGTTTCCCATCTGCCTTAGACACT  
 CATCACTGCTCCACCGTTTGGGAATGAGGGGCGTAACCTCTTGATGCACACAATCTCCC  
 TCATGTCTCATAAGAGGGGTCACTGGGCACTAGGTCATGATAAGGAAGCTGGTATTCTT  
 CCACTATACCTCCTGATACACATCTCTAGCAACCTCCCAAAGGATGAGGC

## Sequence 4040

CCGGGCAGGTACGCGGGGTGGTGGCTGTGCTGGTGGCGTTCAAGATGTCGACCAAGAATT  
 TCCGAGTCAGTGACGGGGACTGGATTTGCCCTGACAAAAATGTGGAATGTAACTTTG  
 CTAGAAGAACCAGCTTGAATCGATGTGGTCCGGGAGAAAAACAACCTGAGGCCAAGATGATG  
 AAAGCTGGGGGCACTGAAATAGGAAAGACACTTGCAGAAAAGAGCCGAGGCCTATTAGT  
 GCTAATGACTGGCAATGTAAACTTGCAGCAATGTGAATTGGGCCAGAAGATCAGAGTGT  
 AATATGTGAATACTCCAAAGTATGCTAAATTAGAAGAAAGAACAGGAT



Table 1

## Sequence 4041

GCCGCCCGGGCAGGTACTTAAGTAGGGTTAGCCCGAGGTCAGGAGGGTGGATGCCTTATT  
ATNCGGATTAGTGCCTTCTAAGAGGGACAGTAANAGGGCTTGTTTCATGCTCTTTCTCTC  
CATGCACAAGAAAGAGCACACAGTGAGAAGGAAAGAGGCCCTCACCACAAACCTTGACCAT  
GCTGGCNCCTGATTGCAGACTTCCAGCCTCCAGGGATTGNGAGAAGATAAATATCTGTG  
GTTAAGTCACCAAGTCTGTGGTNTGTTTTATGGCAAGCACAAAGGTAACCCCANATGAT  
GCTTTTTACCCACTTGGGTNGGTCCANCCCTTTNATNGGAANCTGTNAACTTCCTCAAT  
CNCTTGGCAAAAAAATGCTTGC

## Sequence 4042

AGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNN  
NTTNTNTNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN  
GNCCCNTTTTNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN  
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN  
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN

## Sequence 4043

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNN  
TTTTAANNANAAAAANGNAAAAANNTNAAAAAAAAAAAAAAAAAAAAATTTTTAAACNCAANAN  
TTTTTTTTTNAANAAAAAAAAAAAAAAAAAAAAAAAAANNCAAAAAATTCNTTTNNNNNTNAAA  
AAAAANNNNANAAAAAAATNTTTTTNTTTTTTAAAAAAAAAANTTTCTNAAAANCTTAA  
AAAAAAAAAAAAANCCCCNNTCTTTNTNTNAAAAAA

## Sequence 4044

CCGGGCAGGTACAACCAGCAACAAAAAACTCACAAATCTAATGTCTGGCCCTCAGAAC  
ATCCTTCAGACTAATTTTAGAGATTCTTAAAAATTCAAAAAGTAATGCAATGCCAAAA  
CAAAACAAATATATATGGAAGGAAAAGGAGGGGGGAAGCAACACTGTATCATGTACCAGC  
ATCCCCAGCGTCTGGCATTCCATGTTTCTGCTCCTGTGGTCTCCACGGTGCAACAAGCTA  
GCGGTTTACTTGGACCTCTGCCTCATCTTCTTCTTTGCGCTTCAGCCTGCGCATTTG  
CTTCTTCTCCTCCACTTTGGCTCTCATGGGCGCAGAGGTTTCCAAAAA

## Sequence 4045

CCGGGCAGGTACAATTCAGGACACAGGCATGGGCAAATACTTCATGACTAAAATACCAAA  
AAGCAATGGCAACAAAAGTCAAAATTGACAAATGGGATCTAATTAAGTAAAGAGCTTTT  
GCACAGCAAAAGAAACCATCATCAGGGTGAACAGGCAACCTACAGAAATGGGAGAAAATTT  
TTGCAATCTATCCGTCTGACAAATGGCTAATATCCAGAATGATCTCTATTTTATTTTTA  
TGACATATTAATCATGTTTGTCTCTTGTGTCTCTCTTCTTCTCTCGATTTTCCAGT  
GGGTCCACGGTGGTCTATTTGTAGGGTTCATATTACAAATGGGAGTCA

## Sequence 4046

AGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTATGAAGGTTGAATGCAGGGTTTATTGAG  
TGGTGGAGGTGGTTCTCTGAAGGATGGATGCAGAGCTGGAAGCGGGGATGGCACGGGAAG  
ATAATCTTCCTGCTGGGTGGCCAAACCTCTCCGACCACCCTCGGCTGAACTCCTCTCGGC  
GTTCAAATGTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT  
GCTTGGCGATAGGTGATTGTCTCGCCGCTCAGCTATAGGCGATGGTCTCACCACCTCGGT  
ATAGGCGATTGTCCCATCTAGGTCGCCAAAATGTGTCTGGAAT

## Sequence 4047

CCGGGCAGGTACTCAAGGCAAAACAGCAATTGCCCATCGAGATCTGAAAAGTAAAAACAT  
TCTGGTGAAGAAAAATGGAACCTGCTGTATTGCTGACCTGGGCCTGGCTGTTAAATTTAT  
TAGTGACATAAATGAAGTTGACATACCACCTAACACTCGAGTTGGCACCAAACGCTATAT  
GCCTCCAGAAGTGTGGACGAGAGCTTGAACAGAAATCACTTCCAGTCTTACATCATGGC  
TGACATGTATAGTTTTGGCCTCATCCTTTGGGAGGTTGCTAGGAGATGTGTATCAGGAGG  
TATAGTGGAAGAATACCAGCTTCCTTATCATGACCTAGTGCC

Table 1

## Sequence 4048

AGGTACTTTTTTTTTTTTTTTTTTTTTTGCATTAACTACTGTTGTATCATTGGGCTG  
CGACGGGTACAGGTCCACAACTGTTTAACTGGACATATGTGGAGGNGGTAAATCCCCC  
CATTTTACAGGTCTTTGGGAAGTTCTGGGGGCCAGGAAATCCAAATTTGATAATAGGA

## Sequence 4049

GGCCGCCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTGGAAAGGTTGAATGCAG  
GGTTTTATTGAGTGGTGGAGGTGGTCTCTGAAGGATGGATGCANAGCTGGAAGCGGGGA  
TGGCACGGGAAGATAATCTTCCTGCTGGGTGGCCAAACCTTTCCGACCACCCTCGGCTGA  
ACTCCTCTCGGCGTTCAAATGTTCTCTCTCTCTCTTTT

## Sequence 4050

CGAGGTACTTTTTCTTTTTTTTTTTTTTTGAGACAGAGTCTCGCTCTGTTGCCAGGCTGG  
AGTGCACTGGCACAATCTCAGCTCACTGCAACTCCACCTCCCGGGTTCAAGTGATTCTC  
CTGCCTCAGCCTCCTGAATAGCTGGGACTGCAGGCACCCACTGCCACACCCCGCTAATTT  
TTGTAATTTTTAATGGAGACAGGGTTTACCATGTTGGCCAGGCTGGTCTCGAAGTCTCGA  
CCTGAGGCAATCCATCCACCTCGGCCTCCCAAAGTGCTAGGATTACAGAGGTAAGCCACC  
ATGCCTGGCCCCAGTCTCTACTAATTTTCTGTTGATGCTGTAACAAATTACTACAAACGT  
TGTGGCTTAAACAATATACATTTATTATCTTAACAGTCTGTAGGGTAGGAATCTGACA  
CAGGTCTTGTGGCTAAAATCAAGGACTGGCAAGGCTGCATTCTTTCTGGAGGCTCTAG  
GAGGGAATCCAGGTACCTGCCCC

## Sequence 4051

GGAGCTCCCCGCGGTGGCGGCCGANGTACTTTTTTTTTTTTTNTTTTTNTAACGCCCTTC  
CTACATCAGGTNTATTCAAAACACAAACAAGTATTTCTTTNTGTAAGGGCAAATGGTT  
CAAATAATGCGGTACACGAAACATTGACTAATCAAGTGCTTTAAATATNAAACANAATTA  
TTCTTTTAAAAAAGCAAAATAATAANGNATATATACAAAAGGGACCTGGANTNTGTAAGC  
TGATTCCAAAANCGAATAAGTAGAAAATCCATGGTGAAACCTGAACATTCTACCTTTG

## Sequence 4052

CAGCGAGATAGGGTTGGAGGAGAAGTANCGCCGGGACTTCCGGATGGCAAACCTCTCTGT  
GGGTAGAGATTTCCAGCAATCTTGAGCTTCAGGCCTGGCACAGCTCGAAATAATTCCAC  
TTCGTCGACCCCGAACGGCTTGTGGTCTCCTTCCCAAACATGCTGAGGTAGGCGGCCTT  
CATGTAATGTAGGTGGCCTTTTAAGTCAGATCATGTCAGTTCTCTGGAATCTGGN  
TATATTCATCACACTCAGGAGACATCTCCTACAATTTCTTGACAC

## Sequence 4053

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTCTTTTCTCT  
TTTTTTATTGTTTGTTTTTTGTTTTTTGGGGTTTTTTTTGGCAGCCACAGGAGTTT  
TAGCCAATTCAGATGCCTTGCTCCCCACAATTTGGAACATTCTTTGGAATTGACCAAGT  
CAGGAAGAGATGGGAGAGAAGTGAACAGCAACAATAAACCCCAAACA,AAACAAAAGA  
GTTAAGCAAAACAAACAAATGCACAATTCATATGATTAAGTGAAGTGTCTAATGGTAAGG  
AGGAATTAAGCAGCTGGTGGGTAATCTTAAATTTAGTCATTAAGGAAAAATTTAAG  
ACAAAACCTCTAACCCGCGTACCT

## Sequence 4054

CGCCCGGGCAGGTACCTTCAATTTTTCCACGGTAATGGAATATAACTATTTATCAATTT  
ATCACTGCAACTGACATAGCCAGGGAAATGTTTAAGAAATGAATAAATAGAAGTTTATTC  
CCTGCAGGTAGCGATTGAGTCCACCAAAATCTTAAGCTAAATTTATGTTGTTTCATGGT  
AGCTGTTATGAAAATGGACCATCTAAGAGAAAATCCATTGTTTCTCAAATTCAAATGCAT  
TCTGTGTGACTAGGTTGTTCCCGTGATAATGCTATGCGACATTGCTGTTCTCTTCTATT  
ACCAGTTTGCCTTCTAATAACCTCTTCTCATATACATTCTTAGGAAAAGACCAGTGCC  
CTCAGTCTGAGCAACGTTGCTGGAGTATTCTACATCCTTGTGGGGGGCCTTTGGTTTGGC  
AATGCTGGTGGGCTTTGATTGAGTTCTGTTACAAGTCAAGGGCCCGAGGCGAAAACGAAT  
GAAGGTGGCAAAGAATGCCAGAATATTTAACCCATCTTCTTCGAGAAATTCACAGAA

Table 1

TTTTGCCAACTTATAAGGGAAGGTTACAACCGTATATGGCATCGAAAGTGGTTAAATTT  
AAGGG

Sequence 4055

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACGCGGGCAGTG  
GGAACATACCAGCCTGAATTTGGAAAAATAATTGTGTTTCTTGCCCAGGAAATACTACG  
ACTGACTTTTGATGGCTCCACAAACATAACCCAGTGTAACAGAGAAGATGTGGAGGGGAG  
CTGGGAGATTTCACTGGGTACCT

Sequence 4056

CCGCGGTGGCGGCCGAGGTACCACACCAGCCTCAGAACCCGCTCCACTGGCCCCCATGA  
GGACCACCAGCAAAGGGAGACCAAAGAGAATGACCCCATGGACAGCCATCAGTCCCAGGA  
ATCCCCAAACCTGGAACATAGCAAACCCCTAGAAGAAAATGTAACGAAAGAATCAAT  
CAGTAGTAAAAAAGGAAAAAAGGAAACATGTGGACCAGTAGAAAGTTCACTATTTGT  
AGCACCAGGAAGTGTTCAATCCTCAGATGACCTAGAAGAAGACAGTAGCGACTACAGCAT  
TCCTTCCAGGACTAGTCACAGTGACTCCAGCATTTACCTTCGACGACATACTCATAGGTC  
TTCGGAATCGCCCAGAGCTTTGAAATTACTGGCATGCAACAGCTATACTTTTGGATAGAA  
GACAAGCAGATTGGAACCTTATCATTAAAGCAGTCCGATCGGATATCCGGTTTGGGCAA  
TAAGAGATGTAAATAAAGTGAGGATTTTAAAGCCCAAAGGCCTCCTTGCTATAAAAACGC  
ACCCAAAACGCCTT

Sequence 4057

CCGCGGTGGCGGCCGAGGTACTTTCTTTTTTTTTTTTTTTTTTTTGCATTTGAGCTAA  
GATTTTAACAATCCTGTGAAAATAGGTAATATAGTCACGTATTTGTTGAATACATTATTT  
CAAAGAACCACAAACACAGAAAAAATATTTAAAAAGTCCATGGTGGGGGAAATGATCC  
AGAAACAACAGCTCTTNTACTTCCAGCCCTAACCGTCTGGGATGCTAGATGGNTGNGGGC  
AAACCGTGGAAAAAGATAAGCTTCTGNTTTTCAAGATTTTATTTTGTAGAGAGTGACAGA  
AAATCTAAGTGATGNCCTCTGTTTTTGTCTTCTAGCAATTAATATATGACAGCAGTCTTTG  
NGATTTA

Sequence 4058

CGGCCCCCGGGCAGGTACGCNGGGGGAGCATGAACCCTGTTGTGAACTGCTCATCTGA  
GGGATCTAGGTTGTGTGCTTCATATGAGAATCTAATGCCTGATGATATGTCAGTGTCTCA  
CTTTGCCCCCAGATGAGACCATCTAGTTGCAGAAAAATNAGCTCAGAGTTTCCACGGATT  
CTACATTATGATTTGATCTTCAACAAAGCTGACACTGGGGAAAGGACACACTCTTNAATA  
AATGGTGCTGGGAAAATTGGATAGCCACATCCAGAAAAATGAACTGGACCACTATCTCA  
CTATATACAAGAATCAACTCAAAGTAGATTAAAACTTAAACAGAAGACCTGAACTATN  
AAAATACTTGAAGAAAACCTANGGAAAAATTTCTGGCCTTTTGTCTAGGCGAAGAATTT  
AATGACTAACACCTCANAAAGCCACAAGCAACACAAGATAAAAAATNGACANNATGGGACT  
TAATTAACCTAGAAAGCTTCTTGAGCNGCAGAAAGGAAATAATCAGCAGNANTGAAGAGAC  
CACCTTCTTGAATGGAAGAAAATATTTGCAAACCTGGTCATCTAATAGNNGGNCTAATACC  
TNGGAATTTTNCCTAAA

Sequence 4059

CCGCGGTGGCGGCCCGCCCGGGCAGGTACTTGTTTTTCAAACAATAAAACAGGCCGGGCA  
CCGTGGCTGGCTCACGCCATAATCCCAACACTTTGGGAGGCCGAGGCGGGCGGATTACC  
TGAGGCCAATATGGTGAATTCTCTCTCGACTCAAAATACAAAATGATTAGCTGGCCGTG  
GTGGTGTGTGCCTGTAATCCCAGTTACTTGAGAGACTGAGAGGAGAGAATCGCTTGAACC  
CGGGGGGCAGAGGTTGCAGTGAGCCAAGATTGCACCACTGCACTCCAGCCTGGGCAACAA  
GAGCGAAAACCTCATCTTAAAAATAAAATAAATAAATAAATAAATGATGAAAACACAATA  
ACTACAGCACTTCAGAGTTAGTTGACAAATCCACCTTTTCAATCTACATTTCAAATGTT  
CAGAAAGACACCATCCTAGGGGAAGTCAACCAGCAGCAACCTCTCTGCTAATTTTGTAC  
CT

Sequence 4060

Table 1

CCGGGCAGGTACGCGGGGCCATTTAGCCTGCCATTGAAATGCAAAAGTCTGTTCCAAATA  
AAGCCTTGAATTGAAGAATGAACAAACATTGAGAGCAGATGAGATACTCCCATCAGAAT  
CCAAACAAAAGGACTATGAAGAAAGTTCTTGGGATTCTGAGAGTCTCTGTGAGACTGTTT  
CACAGAAAGGATGTGTGTTTACCCAAGGCTACACATCAAAAAGAAATAGATAAAATAAATG  
GAAATTAGAAGGTAGATATGCTGCTGAATTTAGAACATTCTCTGCAATGATAAGGTCTC  
CTGTTAAAGATGGTCTTCTGAAGGCTAACTGCGGAATGAAAGTTTCTATTCCAATAAAG  
CCTTAGAAATTGATGGACCATGCAAACTTTCAAAGCAGAGNCTCCGAGAAGNCATCTGCC  
TTCGAGCCTTCCCATTTGGAATGCA

Sequence 4061

CCGCGGTGGCGGCCCGAGGTACACACTGGCAGAGCACCCGACGGACGGTGGCAGAGGCAA  
AGAAGAAGATTGAACAACAGGGAGGCTTACCTTTGAAAACAAAGGAGTCTCTCCGCAT  
TTAATTTTGGGACTGTGCCCAGCAACAACTGAAGGAAAGAACATCAGCTGACCAAATGTC  
ATCGCTGCATTTTATTTACAAGAGGAGTGTGAGGGTCAAGGGGATGAAATGAGGGGCTG  
CTTTTAGGGCCCTCCTGCTGTGCCAGTTACCATCTGGCATTAGGCAGCACTTTTATCTAC  
TCTTTCCCTTTGACCTTTGTCACCCCTGAAATATATATTTTAAACAGCTACTGTAAGTAT  
GAAATGAAAGAAAAACAATCATTGGACGGAAAAGGACAACCCATATGTTCCAAAGGCTGA  
ATGCCAAGGTTGTTTATAGAGGATTGGATAGACTGCACCGTCTCANGTTTTTGCCCATG  
CAGAATCAATGGA

Sequence 4062

CNAATTGGAGCTCCACCGCGGTGGGCGGCCGNANCTCTGAGGAGCGGCCAAGCAGCAGGA  
CAGGCAGCTTGCCCTGGTGGTCAATTTTATGATGAGTGCGATGTCTGCTTCTCATCCCCCG  
CGTACCTGCCCCG

Sequence 4063

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCTCGAGGTACAGGGTCCCAAAATGCGCTGAC  
TCAGCTTACCAGCCCCATCTCGGATCTCATTGCCAAAAATGTCTCTTCCGGTCATGAATGA  
GGATCCAGCCCAACCTTCAGNCAGGAACAGCCAGCGCTTGGCCAGCCCTTCCACAGGAC  
AGGATGGGGACATCGGTGCTGAGGGTGGCCAGTGGTTTATTTGCAATCCGAAAAACACC  
ATGCTCCATAGATCTCATCAGCTAAGATGGGGACACACTGCCCGTGCAGGCATGCCAG  
AATCTTCTGAAGATGACCGTTNGCTGAACACTGACCCACAGGGGTTTTGATGGATTATTG  
ACAATGGAGACAAGCTGTCTTTTATCAA

Sequence 4064

AACTCCTCTCGGCGTTCAAATGTTCTCTCTCTCTCTCTCTCTCTGCTGTATCGTTTCACCAT  
TCATCTGCTTGTCTGGGATGGTGAAGACAACCTGTTTGCTCATTCTAAACGACACGGAATA  
GAGGCGTCTCCTCATCTGCTCATCTGCTTCTGAGCCCGAGGTTTGGGGTTTATATGGGT  
ACCT

Sequence 4065

CGAGGTACGACCGCAAAGCCTGACTCTTAACCATTTGTGTTCTGTTGCCCTTCTCCAAGGGA  
AAGGAGTGCTTCCAGAAAGGCCATTGGAAGTGAGGAGCGTCACCTGATAATAGCTGGCTC  
CTCATCCCCTAGGTTAACAGGCAACAGATGGGGGCCACAGAGTTGGCTGGAGTTAGTCC  
TGGTTGCCAAGGGTAAATGGGGCTGTTACCATGCAATGGATAGAACTAGGATGCTCCTG  
TGTGCTCCTTATATCCTACCAGGTGTAGCATGAAGGTTAAGGACAATCCGTCCTCTTA  
TTTGGAGAGGAGACCAAGGCCCTGTAGGACTAAAGGTTTGGGTGAGCTGAAAGCCAAGGG  
CAATTGGCCCAGCTTGGGGAGGAGATTACAAATACATTTGTGACTATCANACCAGAAAC  
AGACTGCGGTGTTACCTGCGGTTTGGGTACCTGCCC

Sequence 4066

CGCGGTGGCGGCCCGAGGTACGCGGGGACTGCACACATGCTAGGGTCCAGGACAGCAGGA  
CCAAGCCAGCAGAAACAGCCTGAGCCCACCGCAGACTGGCCTGGCTATACTGGACAATGC  
CACTCCTCCTGTACCTGCCC

Sequence 4067

Table 1

GGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACACTTGAAACCAAATTTCTAAAAC  
TGTTTTCTTAAAAAATAGTTGTTGTAACATTAAACCATAACCTAATCAGTGTGTTCACT  
ATGCTTCCACACTAGCCAGTCTTCTCACACTTTTTGGTTTCAAGTCTCAAGGCCTGACAG  
ACAGAAGGGCTTGGAGATTTTTTTCTTTACAATTCAGTCTTCAGCAACTTGAGAGCTTT  
CTTCATGTTGTCAAGCAACAGAGCTGTATCTGCAGGTTTCGTAAGCATAGAGACGATTTGA  
ATATCTTCCAGTGATATCGGCTCTAACTGTCAGAGATGGGTCAACAAACATAATCCTGGG  
GACCCCGCGTACACCTGGGCACCAAGTGACATTCCAGATGTCCTTGGGGGGCGTCACTATG  
GAAGGACCTTGCTCGCAGGTGCCCTTGCTGACCTGGGTGCCCGCCGTACCT

Sequence 4068

CCGCGGTGGCGGCCGAGGTACTTCATTTAATTTTTGCCTCTTACAGTCTGATATCCTGTT  
GGGCATTCTGGACAACTTGGACCCAGTCATGTTCTTCAAATGCCCTTCCCCAGAGCCTGC  
CAGCCTGGAGGAGCTCCCAGAGGCTACCCAGAAGGACCCAGTTCCTTACCAGCCTCCCTT  
TCTCTGTCAAGTGGGGACCGTCATCAGCCAAGCTGGAAGCCATTAATGAACTAATTCGTTT  
TGACCACATATATACCAAGCCCTAGTCTTAGAGATACCCTCTGAGACAGAGAGCCAAGC  
TAATGTGGTAGTGAATTCGAGGAAGCACCTCTCAGCCCTCAGAGAATGATCACCCCTGA  
ATTCATTGTCTCAGTGAAGGAAGAACCTGTAGAAGATGACCTCGTTNCGGAGCTGGGTAT  
CTCAAATCTGCTTTCATCCAGCCACTGCCCAAAGCCATCTTCTGCCTACTGGGATGCTT  
ACAGTGACTGTGGGATACGGGGGTTCCTTTCCCATTCAGTGACATGTCCTCTCTGNT  
TGGTGNAACCATTTTTGGGGAGG

Table 2

## Sequence 1

CCGCGGTGGCGGCCGAGGTACAGGAACCTTGATAATCATTGTTGTTGTCTTTATCATTACC  
ATCATCTCCATTAGCATCATCAGCATCACAGTTGCAGTATGGGGATCACATTAAGTGATG  
CGGCAAGATCAGGAAAACCATATCAAGACAATGTCCAGTTTGGATGTGTAATATTATC  
CTGTGCTTCTTGCCCATTTAGCAAACACTTTCTTTTCAGTGATAAACCTATGACCCCCAT  
ATGGGGCATGTTTCATGAAGAAAATATTCATCACACTCATCTCTTCCTTGTTTCATAATAAT  
GGTAGGGGACTTTTCTATACCTTCTGTCTTGCAGTAGGTGTCATTTATCATCCCGTAGA  
CGTGAATGCCATAACAGGCGTCCATGGCCAGAATGAAGGTAAACCACCCTGTGCTGAGAT  
ATGAGCCAGACTGGACTCTGCCTTCCAGTTTCTTCTTAAAACTCCATCACAGTAAC  
CATGCGCTTCTGTGTGGTCACCGTATATTTGGGCATTCGGATAGATCCAACTGTCTTTT  
CAACATGTTGTAAACGATGCCATTGCCATCTTCTCATATTGCGGAAAGGTCCCCAAAT  
AACATAAATAGTAGTATTCGCTTCTTGAAAAAATAATCANGGTTT

## Sequence 2

CCGCGGTGGCGGCCGGGAGCCGCGGAAAGAGTAGGGCCCCCAGACAACGGGGTCCGAGC  
AGCAGTTGGGCACGGGCTGAGTCCGCCTGCCGGCAGAATGTCCCTGGCTGCTTATTGCGT  
CATCTGTTGCAGAAGAATAGGAACCTCTACTTCCCCACCAAAAAGTGGCACACACTGGAG  
AGATATCAGAAATATAATAAAGTTTACTGGATCACTTATTTTAGGAGGTTCTTTATTTCT  
TACATATGAAGTTCTGGCCCTGAAGAAGGCTGTGACATTAGATACTCAAGTGGTAGAACG  
AGAAAAATGAAGTCATATATATATGTGCACACAGTTTCTTTAGATAAAGGAGAAAAATCA  
TGGTATTGCCTGGCAGGCAAGAAAAGAACTTCACAAAGCAGTAAGAAAAGTATTGGCAAC  
ATCAGCCAAGATACTGCGGAATCCATTTGCTGATCCTTTTAGTACCT

## Sequence 3

CGCCCGGGCAGGTACCCGGCTGGCCAAGGAGAAGGAGCAGAGCCTCACGGCAGAAAAGGA  
TGAGGACGAAGAGAACGATGCCTCTCTGGCCAACNCTCCACCACCCTTTGGAGGACAA  
AGGCCCTGGCCATGCCACTTTTGGCCGCGAGGCCACCAATTTGAAGAGGAGGANAAACC  
TGACAAGGCCTGGGAAGCCAGACCCCCACGAGAGTCCAGCGATGTTCCCCCACGAAGAG  
AAATAACTGGATCTTTATTGATGAGGAGCAAGCCTTTGGGGTCAAAAANGACAGGCCCCGG  
GCCCGGGGNCNGTGGTTTCAGAAAAGTTCACTTTTCGTGGTCNNGNCTTCTTGGCGGAAAT  
GGGAACCGGCCTTTTGTGGTGGGGGGGGTCTGGGGGGCCCCCANCATNTACTGCAACAA  
GTCAAGCGCAACGGGNCNGCTTTTAAACTAGTGGGATNCCCCCGGGCCTGGAAGGAAAT  
CGATATTAAGCTTATTCGATACCGTCACCCCTTNANGGG

## Sequence 4

ANTNTATCCCCNNNCTNCANNAATTCTATATCAANCTTATTTATACCTTCCAAGGGAAN  
GTTNNNCCCNNTACCCANCTTTTTTCTNAAGGAATTAANCTTAATTTCCCTCTTNNCTTA  
ATCATNNTCATANCTTNTTCTCTNTNTCAAATTNTATCC

## Sequence 5

CGCGGTGGCGGCCGAACATCTCCAGCAAGCTCCGGTCGATGGCCTGCACCTCTGGCTCTA  
GCTCCGACNCCATCTTCTCTCCTCCTCTTCCAGCGCTACCGCCGNCCGAGAGCTGCA  
GCCTCACCTCNG

## Sequence 6

GCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACCCTTTTCTTCCAGCCCAGAGCTAGAC  
TTCTGGATGCTGAGCCTGGGAAAATACTGAATTTCTCTCATTTTCACTTTTAGGAGGGA  
ACGGTTATGGCATATACTTGCAGTGCCATTAGAAGCATTGGCAATCCCTGATCTTTTGA  
TAGTTTAAGGCTTAGAATCATCAAAAGTTCCAGGTTTCATATCCTTCTAAAATGGAAGAAA  
TGGAGGAAGTTCCAAGTGTTGACCTCGGC

## Sequence 7

GGAGCCCGGAAAGAGTAGGGCTCCCCAGACAACGGGGTCCGACGAGCAGTTGGGCACGG  
GCTGAGTCCGCCTGCCGGCAGAATGTCCCTGGCTGCTTATTGCGTCATCTGTTGCAGAAG  
AATAGGAACCTCTACTTCCCCACCAAAAAGTGGCANACACTGGAGAGATATCAGAAATAT

Table 2

AATAAAGTTTACTGGATCACTTATTTTAGGAGGTTCTTTATTTCTTACATATGAAGTTCT  
GGCCCTGAAGAAGGCTGTGACATTAGATACTCAAGTGGTAGAACGAGAAAAATGAAGTC  
ATATATATATGTGCACACAGTTTCTTTAGATAAAGGAGAAAATCATGGTATTGCCTGGCA  
GGCAG

Sequence 8

AGGTACTAAAAGGATCAGCAAATGGATTCCGCAGTATCTTGGCTGATGTTGCCAATACTT  
TTCTTACTGCTTTGTGAAGTTCTTTCTTGCTGCCAGGCAATACCATGATTTTCTCCTT  
TATCTAAAGAACTGTGTGCACATATATATGACTTCATTTTTCTCGTTCTACCACTT  
GAGTATCTAATGTACAGCCTTCTTCAGGGCCAGAACTTCATATGTAAGAAATAAGAAC  
CTCCTAAAATAAGTGATCCAGTAACTTTATTATTTCTGATATCTCTCCAGTGTGTGC  
CACTTTTTGGTGGGGAAGTAGAGGTTCTATTCTTCTGCAACAGATGACGCAATAAGCAG  
CCAGGGACATTCTGCC

Sequence 9

CCGCGGTGGCGGCCGAGGTACAGGCTGACAGAGAAGATTCCCGAGAGTAAATCATCTTTC  
CAATCCAGAGGAACAAGCATGTCTCTGCCAAGATCCATCTAACTGGAGTGATGTTAG  
CAGACCCAGCTTAGAGTTCTTTCTTTCTTAAAGCCCTTTGCTCTGGAGGAAGTTCTCC  
AGCTTCAGCTCAACTCACAGCTTCTCCAAGCATCACCTGGGAGTTTCTGAGGGTTTTCT  
TCATAAATGAGGGCTGCACATTGCCTGTTCTGCTTCGAAGTATTCAATACCGCTCAGTAT  
TTTAAATGAAGTGATTCTAAGATTTGGTTTGGGATCAATAGGAAAGCATATGCAGCCAAC  
CAAGATGCAAAATGTTTTGAAATGATATGACCAAAATTTAAGTAGGAAAGTCACCCAAAC  
ACTTCTGCTTTCACTTAAGTGTCTGGCCCGCAATACTGTAGGAACAAGCATGATCTTGT  
ACTGTGATATTTTAAATATCCACAGTACCT

Sequence 10

AGGTACAGGCTGACAGAGAAGATTCCCGAGAGTAAATCATCTTTCCAATCCAGAGGAACA  
AGCATGTCTCTCTGCCAAGATCCATCTAACTGGAGTGATGTTAGCAGACCCAGCTTAGA  
GTTCTTTCTTTCTTTCTTAAAGCCCTTTGCTCTGGAGGAAGNTCTCCAGCTTCAGCTCAACT  
CACAGCTTCTCCAAGCATCACCTGGGAGTTTCTGAGGGTTTTCTCATAAATGAGGGC

Sequence 11

AGGTACGATATACGAAGACTCTGAGCTGTTTGCCTCCGATGGTTTCCAGTATTTGCCCGT  
TGTAAGCTCATTAAAGGCCAACTTTTACTTTCAATATGTGATTCTGCAGAATTAATTTAA  
GGAGGCGCTGATCCATGCTGAGAGTATCATCAGAAAATGCATTATTCACAGGTGCCAGCA  
AAGTGTATTCTCCATCTGGCCTCAGAGCAGATGCCAAGCCTAATTGGGCCACAAGATCCG  
TGAAGGTGGTTTGTGTTTTCCAGCCAGCTCAATAACTTGTGGCAGAATCAGGAATTA  
GGACCTGATCAATCAAATGGATCACACCATTTTGTCAATATCCTTTTNGTTCACCA  
TTTTGATTCCATTTACTGTTATACTGTACCGTCACATCCTATCTCAATTNGTATTTCT  
TCCAGCGTCTCAAAGACTGCTCCTCCATAATAGACTCAGAACCTGGANGAGTATTTTAA  
GATGTGGTACCTCGGCCGTTCTAGAACTAGGGGGATCCCCCGG

Sequence 12

CCGCGGTGGCGGCCGAGGTACTGTGGATATTTAAATATCACAGTAACAAGATCATGCTT  
GTTCTACAGTATTGCGGGCCAGACACTTAAGTGAAAGCAGAAGTGTTGGGTGACTTTC  
CTACTTAAATTTTGGTCATATCATTTCAAACATTTGCATCTTGGTTGGCTGCATATGC  
TTTCCTATTGATCCCAAACCAAATCTTAGAATCACTTCATTTAAATACTGAGCGGTATT  
GAATACTTCGAAGCAGAACAGGCAATGTGCAGCCCTCATTTATGAGAAAACCTCAGGAA  
ACTCCAGGGTGATGCTTGGAGAAGCTGTGAGTTGAGCTGAAGCTGGAGAATTCCTCCA  
GAGCAAAGGGCTTAAGAAAGAAAGAACTCTAAGCTGGGTCTGCTAACATCACTCCAG  
TTTAGATGGATCTTGGCAGAGAGACATGCTTGTTCCTCTGGATTGGAAAGATGATTTACT  
CTCGGAATCTTCTGTGACGCTGTACCTGCCCGGGCGGCCCGCCCGGGCAGGTACACC  
TTGAATGACAATGCTTCGGAGCTNCCCTGTGGGCCATCGACCCTTCTGCCATTGATGCA  
CCATCCAACCTGCGTTTCTGGNCACCAACCCAAATTCCT

Table 2

## Sequence 13

AGGTACCACATCTTAAATACTCTCCAGTGTCTGAGTCTATTATGGGAGGAGCAGTCTTT  
GAGACGCTGGAAGGAAATACAATTGAGATAGGATGTGACGGTGACAGTATAACAGTAAAT  
GGAATCAAATGGTGAACAAAAAGGATATTGTGACAAATAATGGTGTGATCCATTTGATT  
GATCAGGTCTAATTCCTGATTCTGCCAAACAAGTTATTGAGCTGGCTGGAAAACAGCAA  
ACCACCTTCACGGATCTTGTGGCCCAATTAGGCTTGGCATCTGCTCTGAGGCCAGATGGA  
GAATACACTTTGCTGGCACCTGTGAATAATGCATTTTCTGATGATACTCTCAGCATGGAT  
CAGCGCCTCCTTAAATTAATTCTGCAGAATCACATATTGAAAGTAAAAGTTGGCCTTAAT  
GAGCTTTACAACGGGCAAATACTGGAAACCATCGGAGGCAAACAGCTCAGAGTCTTCGTA  
TATCGNACCTCNGGCCGCTCTAGAAGTAGTG

## Sequence 14

CCGGGCAGGTACCTTTCCAATTTGGAGCTAGAAATGGACGAGGAGAGTCTTCAGACATTA  
TCTCTGCAGTGTGAGCCAGCAACCAACACATTGCCTAAGAATCCTGGTGACAAAAAGCCT  
GTCAAATCCGAGACCTCTCCAGTAGCTCCAAGGGCAGGGTCACAACAGAAAGCTCAGTCC  
CTGCCACAGCCCCAGCAGCAGCCACCAGCACATAAAATCAACCAGGGACTACAGGTT  
CCCGCCGTGTCCCTTTATCCTTCACGGAAGAAAGTGCCCGTAAAGGATCTCCACCTTTT  
GGCATAAACTCTCCACAAGCTTTAAAAAAATTTCTTTCTTTGTCTGAAGAAGGAAGTTTG  
GAACGTACAAGAAACAGGCTGAAGATACAATATCAAATGCATCTTCGAGCTTTCTTCT  
CCTCCTACTTCTCCACAGAGTTCTCCAAGGAAAGGCTATACTTTGGC

## Sequence 15

CCGGGCAGGTACTGAGGAATGAATAGAAAGGCTTCCAGATGTCTAAAAGATTCTTTAAAC  
TACTGAAGTGTACCTAGGTTAAACCCCTGTTGAGTATTTGCTGTTTGTCCAGTTCAGG  
AATTTTGTGTTTGTGTTTGTCTATATGTGCGGCTTTTCANAAGAAATTAATCAGTGTGAC  
AGAAAAAAATGTTTATGGTAGCTTTTACTTTTTATGAAAAAAATTAATTTGCCTTTT  
AAATTCCTTTTCCCCATCCCCCTCCAAAGTCTTGATAGCAAGCGTTATTTTGGGGGTAGA  
AACGGTGAAATCTCTAGCCTCT

## Sequence 16

CACCGTGGTGGCGGCCGAGGTACATGGATGAAACTAAAGGCTCGAGTTAATCACATTGT  
AGTTTTTAAATTTCTACAGCCTAGAGCTCACTAGTCACAGGTCTTTTAGGTCCTTCTGGA  
TGTCCACAGGGTATCTGCACTTTTCTTGAGCTGAGCAACCTCATCATCTTTAGCTTCT  
GGTTGATAACGCTGGTTAATCCCCGGGCATTGAGGATACATGGAAGGCTCAGGAAGACTT  
CATTCTCAATGCCATACATCCCCTTTACCATTGTTGACACGGGATGAATCCTGGATAGAT  
TTTTCAACATGGATTCAATAAGATCAGCCACACTTAATCCAATAGCCCAGTTGGTATATC  
CTTTTAGCTTGGTGACTTCATAGGCACTTTCAACCACCATCTTATGCACTTCCTTCCAAT  
TTTCACTATCATTGTCAGTTCCCATTTCTGGATTCAATTCCTGGAGAGAAACACCTGCCA  
CATTACACCACTCCACACAGCCACACTTGAGCGCCATGTTCCCCAAAATCCATCCATG  
GCAGCTGCTGGGATGAATGCCAAGTTTTTCAGCCATAAGGGNAGCGAAATCTAGCAGAAAT  
CCAGATTACATCCACTTCCAATCACGCGGNGTTTGGGTAATNCACCTAGTTTCCAGGGTA  
GCATACCGTAAAGNAATGTCCACTGGGGTGG

## Sequence 17

GGTGGCGGCCGAGGTACACAGCCAGTGTGGTTGCCTTGACGATGATATGGAGAGCCAGC  
CCCTGATTGGAACCCAGTCCACAGCTATTCTGCACCAACTGACCTGAAGTTCACTCAGG  
TCACACCCACAAGCCTGAGCGCCAGTGACACACCCCAATGTTTACAGCTCACTGGATATC  
GAGTGCGGGTGACCCCCAAGGAGAAGACCGGACCAATGAAAGAAATCAACCTTGCTCCTG  
ACAGCTCATCCGTGGTTGTATCAGGACTTATGGTGGCCACCAATATGAAGTGAGTGTCT  
ATGCTCTTAAGGACACTTTGACAAGCAGACCAGCTCAGGGAGTTGTCAACCACTCTGGAGA  
ATGTCAGCCCAAGAAAGGGCTCGTGTGACAGATGCTACTGAGACCACCATCACCATT  
GCTGGAGAACCAAGACTGAGACGATCACTGGCTTTCA

## Sequence 18



Table 2

AGGTACAGTCCTGATTGCATCATAATTGTGGTTTCCAACCCAGTGGACATTCTTACGTAT  
GTTACCTGGAACTAAGTGGATTACCCAAACACCGCGTGATTGGAAGTGGATGTAATCTG  
GATTCTGCTAGATTTTCGCTACCTTATGGCTGAAAACTTGGCATTATCCCAGCAGCTGC  
CATGGATGGATTTTGGGGGAACATGGCGACTCAAGTGTGGCTGTGTGGAGTGGTGTGAAT  
GTGGCAGGTGTTTCTCTCCAGGAATTGAATCCAGAAATGGGAAGTACAATGATAGTGAA  
AATTGGAAGGAAGTGCATAAGATGGTGGTTGAAAGTGCCTATGAAGTCATCAAGCTAAAA  
GGATATACCAACTGGGCTATTGGATTAAGTGTGGCTGATCTTATTGAATCCATGTTGAAA  
AATCTATCCAGGATTCATCCCGTGTCAACAATGGTAAAGGGGATGTATGGCATTGAGAAT  
GAAGTCTTCTGAGCCTTCCATGTATCCTCAATGCCCGGGGATTAACCAGCCGTATNAA  
CCAGAACTAAAGGAT

## Sequence 19

AGGTACTGAGGAATGAATAGAAAGGCTTCCAGATGTCTAAAAGATTCTTTAACTACTGA  
ACTGTTACCTAGGTTAACAACCTGTTGAGTATTTGCTGTTTGTCCAGTTCAGGAATTTT  
TGTTTTGTTTGTCTATATGTGCGGCTTTTCAGAAGAAATTTAATCAGTGTGACAGAAAA  
AAAAATGTTTTATGGTAGCTTTTACTTTTTATGAAAAAAAAATTATTGCCTTTTAAATT  
CTTTTCCCCCATCCCCCTCCAAAGTCTTGATAGCAAGCGTTATTTTGGGGGTAGAAACGG  
TGAATCTCTAGCCTCTTTGTGTTTTGTTGTTGTTGTTGTTGTTGTTGTTTATATAATGCA  
TGATTCACTAAAATAAAATTTAAAAAAGTCTGTCTTGCTAGACAAGTTGCTGTTGTG  
CAGTGTGCCTGTCACTACTGGNCTGTACCT

## Sequence 20

CCGGACAGGTACATGAAGCACAAAAAGACTGTGCTCAGGCTGCTGACAGAGATTCCGGT  
CAGGTTGGCGTAATCAATCCTCTGCTTGACTTTGGCGTCTCCACGATGACGACGGCGTT  
GGGCGTGAGCAGCAGCTGCCGGGAGCGAGGCTTGAGCCCTTGCGGTGCTATTTCAACAAC  
AGGCACCGCATACTGAATGGGCTCAGAGCCCCAAGGCTGCAGCACTCGGGGGCTGATCTC  
ATCTGTACCT

## Sequence 21

AGGTACTTGTCGGGCTTGCTCATGTTCTCGTTGTGGATGATGTCATTGTGGGTCCCTC  
TTATTCTCATCTCGGGCCTGGGACAGCTCGCTGCTCAGCGTCAGCAGCTGCCGCTGCACA  
CGCTCGTTCTTCTCTGCCTCAGTGATGCGCTTCTCCTCATTGCGGTATCCCGGATGCCC  
TCACTAGACAGCTCCGCGCTGTAGCCCGTGGGCTCTGCGCCCTCATCCTGCAAGCTCTCC  
TGGACATGGTAGCTCACCGGCTCGTACCTGCCCG

## Sequence 22

AGGTACGATATACGAAGACTCTGAGCTGTTTGCCTCCGATGGTTTCCAGTATTTGCCCGT  
TGTAAGGCTCATTAAGGCCAACTTTTACTTTCAATATGTGATTCTGCAGAATTAATTTAA  
GGAGGCGCTGATCCATGCTGAGAGTATCATCAGAAATGCATTATTCACAGGTGCCAGCA  
AAGTGATTCTCCATCTGGCCTCAGAGCAGATGCCAAGCCTAATTGGGCCACAAGATCCG  
TGAAGGTGGTTTGTGTTTTCCAGCCAGCTCAATAACTTGTGTTGGCAGAATCAGGAATTA  
GGACCTGATCAATCAATGGATCACACCATTTTGTGCAATATCCTTTTTGTTACCA  
TTTTGATTCCATTTACTGNTATACTGNCACCGTCACATCCTATCTCAATTGTATTTCTT  
CCAGCGTCTCAAAGACTGCTCCTCCATAATAGACTNAGGAACACTGGAGAGTATTTAAG  
ATGTGGTACCTCGGCCGCTCTAN

## Sequence 23

CTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGACTTTTTAAATCATGTT  
CCCCCTAAACATGGCTGTTAACCCTGCTGATGCAGAACTTGGATGTCACTGCCTGACAT  
TCACTTCCAGAGAGGACCTATCCCAATGTGGAATTGACTGCCTATGCCAAGTCCCTGGA  
AAAGGAGCTTCAGTATTGTGGGGCTCATAAACATGAATCAAGCAATCCAGCCTCATGGG  
AAGTCTTGGCACAGTTTTGTAAAGCCCTTGACAGCTGGAGAAATGGCATCATTATAAG  
CTATGAGTTGAAATGTTCTGTCAAATGTGTCTCACATCTACACCGTGGCTTGGAGGCTTT  
TATGGGGCCCTGTCCAGGTAGAAAAGAAATGGTATGTAGAGCTTANATTCCCTATTGTG

Table 2

ACAGAGCCATGGTGTGTTTGTNATAATAAAACCCCGNGAAANAACNNATTTNAGGGNGCT  
TGTACCCTTGCGCGNTNTTAAGAAACCTAAGNNGGATNCCCCGGGGCTGCCANGGNNAT  
TCCGAATATCAAAGCCTTNATCTGNNAACCCGCCNNACCCCTANGGGGGGGGGGCC

## Sequence 24

CCGCGGTGGCGCGGAGGTACCGGAGACAGGTGCAGTCCCTCACCTGTGAAGTGGATGCC  
CTTAAAGGAACCAATGAGTCCCTGGAACGCCAGATGCGTGAAATGGAAGAGAACCTTGCC  
GTTGAAGCTGCTAACTACCAAGACACTATTGGCCGCTGCAGGATGAGATTCAGAATATG  
AAGGAGGAAATGGCTCGTCACCTTCGTGAATACCAAGACCTGCTCAATGTTAAGATGGCC  
CTTGACATTGAGATTGCCACCTACAGGAAGCTGCTGGAAGGCGAGGAGAGCAGGATTTCT  
CTGCCCTTTCCAACTTTTCTCCCTGAACCTGAGGGAACTAATCTGGATTCACTCCCT  
CTGGTTGATACCCACTCAAAAAGGACA

## Sequence 25

AGGTACTACTTCTTGGTTAAAAGGCCACTGGTAGAGTCATCTGAGTGTAGAGAATGTCCC  
TTCAGTGTGGAATAATCCACTGGCTCCCAAGAAAAGAAAATGGTCTGAAGCCTCTGTTG  
TGGCTCTCAAACTCATCTTCCCTAAGTCATCAAGCTCCACATCGCTGAGGTCAATGTC  
ATCCTCCACGGGAAGCTCGCCATCCCTGCCGTCCCAAGGCTCTCTCAACGATGGTAGG  
GAAAGCCCCGCCTCTACAGGTGCCGTGGAGCCACGCCAAAAGAGAGCTCCCTGAGAAA  
CTCGTTGATGCCTTGCTCACTGAAGGAGCCTTTTAGCAGAGCAAATTCATCTTGCCTGC  
ATTGATGGCGGCCATGGCGGGGTACCTCGGC

## Sequence 26

CCTATTCACTATAGGGCGANNTGCANGCGTGGTGGCGGCCCGAGGTACTGTGGATATTTA  
AAATATCACAGTAACAAGATCATGCTTGTTCCCTACAGTATTGCGGGCCAGACACTTAAGT  
GAAAGCAGAAGTGTTGGGTGACTTTCCTACTTAAATTTTGGTCATATCATTTCAAAAC  
ATTTGCATCTTGGTTGGCTGCATATGCTTTCCTATNGATCCCAAACCAATCTTAGAATC  
ACTTCATTTAAATACTGAGCGGTATTGAATACTTCGAAGCAGAACAGGCAATGTGCAGC  
CCTCATTTATGAGAAAACCTCAGGAACTCCAGGGTGATGCTTGGGAGGAAGCTGNGA  
GTTGAGCTGGAAGCTGGAGAACTTCTNCAAGGAGGCAGAAAGGCTTAAGAAAAGGAAAGG  
AAGGAACTCTAAGCTTGGGGTCTGCTAACATCACTCCAGTTTAGATGGGATCTTGGGCAG  
AGAGGACCATGGCCTTGNTCCCTCTGGG

## Sequence 27

CGAGGTACAGGAAGTGTACCGTGTCAACCTGATGGGGAGATATGGGGACAATAACCACA  
GTCAGGGCGTTAACTGGTTCCACTGGAAGGGCCACGAACACTCAATCCAGTTTGCTGAGA  
TGAAGCTGAGACCAAGCAACTTCAGAAATCTTGAAGGCAGGCGCAAACGGGCATAAATTC  
CAGGGACCACTGGGTGAGAGAGGAATAAGGCCAGAGCGAGGAAAGGATTTTACCAAAGC  
ATCAATACAACCAAGCCCAACCATCGGTCCACACCTGGGCATTTGGTGAGAGTCAAAGCTG  
ACCATGGATCCCTGGGGCCAACGGCAACAGCATGGGCCTCACCTCCTCTGTGATTTCTTT  
CTTTGCACCAAAAGACATCAGTCTCCAACATGTTTCTGTTTTGTTGTTTGATTAGCAAAA  
ATCTCCCACTGACAACATCGCAATAGTTTTTACTTCTTAGGTGGCTCTGGGAATGGG  
AGAGGGGTAGGATGTACCT

## Sequence 28

AGGTACTCAGGGGAGGCCAGGAAGGCCTTGAGCTTGGGCCGGGCACTGAGGCGCCCCACA  
TATGCTGAGAGCAGGGGGAACGCATCCAGGCAGCCAGGGGCTAGGACCTCATGGATCAGC  
AGCAAGTCCAGCAGGTTGTAGTCAGCGAAGGAGATCTGGTCTCCACAATGAAGGTCTTG  
CCTCCCTGGTTCTGGGACAGCAGGGTCTCAAAAGGCTTCAGTTGCCCGGGCAGTGCCCTTC  
ACATAGTCATCTTGCCCGCCTCATAGTTGGTGTAGATGAGGGAGATGTATTTGCAGCGG  
AGGTCTCCACGCCGTCAATCACCATGTCCACCAGGGCTGCCTCCTGCTGGTCTTCCCA  
TAGAGCCCAAGGGTGCGGGCCAGGTGACGCAGGATGGTATTGGACTGGTACCT

## Sequence 29

AGGTACTTGAGCTGTGAGGTCATCGGAATCCCGACACCTGTCTCATCTGGAACAAGGTA

Table 2

AAAAGGGGTCACTATGGAGTTCAAAGGACAGAACTCCTGCCTGGTGACCGGGACAACTG  
GCCATTGAGACCCGGGGTGGCCCAGAAAAGCATGAAGTAACTGGCTGGGTGCTGGTATCT  
CCTCTAAGTAAGGAAGATGCTGGAGAATATGAGTGCCATGCATCCAATCCCAAGGACAG  
GCTTCAGCATCAGCAAAAATTACAGTGGTTGATGCCTTACATGAAATACCAAGTGAACAAA  
GGTGAAGGTGCCGAGCTATAAACCTCCAGAATATTATTAGTCTGCATGGTTAAAAGTAGT  
CATGGATAACTACATTACCTGTTCTTGCCCTAATAAGTTTCTTTAATCCAATCCACTAAC  
ACTTTAGTTATATTCACTGGTTTTACACAGAGAAATACAAAATAAAGATCACACATCAAG  
ACTATCTACAAAAATTTATTATATTTACAGAAGAAAAGCATGCATATCATTAACAAA  
TAAAATACTTTTTATCATAAAAAATACCTCGGCCGCT

Sequence 30

AGGTACATGGATGAAAACTAAAGGCTCGAGTTAATCACATTGTAGTTTTAAATTTCTAC  
AGCCTAGAGCTCACTAGTCACAGGTCTTTTAGGTCCTTCTGGATGTCCACAGGGTATCT  
GCACTTTTCTTGAGCTGAGCAACCTCATCATCCTTTAGCTTCTGGTTGATAACGCTGGTT  
AATCCCCGGGCATTGAGGATACATGGAAGGCTCAGGAAGACTTCATTCTCAATGCCATAC  
ATCCCTTTACCAATTGTTGACACGGGATGAATCCTGGATAGATTTTTCAACATGGATTCA  
ATAAGATCAGCCACACTTAATCCAATAGCCAGTTGGTATATCCTTTTAGCTTGATGACT  
TCATAGGCACCTTTCAACCACCATCTTATGCACCTTCTTCCAATTTCACTACCAATTGTCA  
GTTCCCATTTCTGGATTCAATTCCTGGAGAGAAACACCTGCCACATTCACACCACTCCAC  
ACAGCCACCACTTGAGTCGCCATGTTCCCCCAAATCCATCCATGGCAGCTGCTGGGATG  
AAT

Sequence 31

AGGTACTGCAGGGCCCCCTCAAGGAGGATACTACAAAACAGCCCTGGGAACCAGGTGCGAC  
ATTCAGTGCCAGAGGGCTACGAGCTGCATGGCTCTTCCCTACTGATCTGCCAGTCAAAC  
AAACGATGGTCTGACAAGGTCACTCTGCAACAAAAGCGANGTCTACCCTTGCCATGCCA  
GCAATGGAGGGTTTAAGTGTGTAGATGGTGCCTACTTTAACTCCCGGTGTGAGTATTAT  
TGTTCAACAGGATACACCGTTGAAAGGGGAGCGGACCGTCACATGTATGGACAACAAGGC  
CTGGA

Sequence 32

GTGGTCATCGACGCCCTCCACTGCCATTGATGCACCATCCAACCTGCGTTTNTGCGCCACC  
ACACCAATTCTTGCTGGTATCATGGCAGCCGCCACGTGCCAGGATTACCGGCTACATC  
ATCAAGTATGAGAAGCCTGGGTCTCCTCCAGAGAAGTGGTCCCTCGGCCCCGCCCTGGT  
GTCACAGAGGCTACTATTACTGGCCTGGAACCGGGAACCGAATATACAATTTATGTCATT  
GCCCTGAAGAATAATCAGAAGAGCNAGCCCCTGATTGGAAGGAAAAAGACAGGACANGAA  
GCTCTNTNTCAGACAACCATCTCATGGGCCCATTCAGGACACTTNTGAGTACCT

Sequence 33

AGGTACAGGCTGACAGAGAAGATTCCCGAGAGTAAATCATCTTTCCAATCCAGAGGAACA  
AGCATGTCTCTTGCCAAGATCCATCTAAACTGGAGTGATGTTAGCAGACCCAGCTTAGA  
GTTCTTCTTTCTTTCTTAAGCCCTTTGCTCTGGAGGAAGTTCTCCAGCTTCAGCTCAACT  
CACAGCTTCTCCAAGCATCACCTGGGAGTTTCTGAGGGTTTTCTATAAATGAGGGCT  
GCACATTGCCTGTTCTGCTTGAAGTATTCAATACCGCTCAGTATTTAAATGAAGTGAT  
TCTAAGATTTGGTTTGGGATCAATAGGAAAGCATATGCAGCCAACCAAGATGCAAATGTT  
TTGAAATGATATGACCAAAATTTTAAGTAGGGAAAGTCACCCAAACACTTCTGCTTTTCA  
CTTAA

Sequence 34

CCGCGGTGGCGGCCGAGGTACACGTCCTGATTGCATCATAATTGTGGTTTCCAACCCAGT  
GGACATTCTTACGTATGTTACCTGGAAACTAAGTGGATTACCCAAACACCGCGTGATTGG  
AAGTGGATGTAATCTGGATTCTGCTAGATTTGCTACCTTATGGCTGAAAACTTGGCAT  
TCATCCCAGCAGCTGCCATGGATGGATTTTGGGGGAACATGGCGACTCAAGTGTGGCTGN  
GTGGAGTGGTGTGAATGTGCCAGGTGTTTCTCTCCAGGAATTGAATCCAGAAATGGGAAC

Table 2

TGACAAATGATAGTGAAAATTGGAAGGAAGTGCATAAGATGGTGGTTGAAAGT

Sequence 35

CCGGGCAGGTACATGACCCCTTCATTGGTTGTGCAGATTTCTCGTGGGCAGCCATGGGG  
CAGAACCCAAACTTCTGGTCGGCATCATAGTTCTGTGTGGTCCCACACCACTTCATGTTG  
TCTCTTCTGCCCTCAGAAAGTGAATCAGTGTAAATTGTGGTTGTTGTATAGGAAGGGGAAG  
TGGCACAAGGCACCATTTGGAATTTCTNCTNGAGTCTGAACCAAAACAGTGTGGNCTGTG  
CANAAAGAGTATTTCTGGTCTGCTCATAANTCGAAGTTGTGCTGCACCAAAAGATGTNC  
GTCCTGTGCGCCCTTCTGTGGTGCAGGAGTAGAACGTCTGCTGCCATTGTAGGTTGAATGG

Sequence 36

AGGTCTAACATCCCTAGCAGCCTTCCTCAGGCACACTGTGACAGTGGAGTGGGCACACGT  
ATCGTTTCAGGCACCTTGGCTGACAGCCCAACGCGGCCACCTGGGTGCATGGACATTTGC  
AGCTGCCACCATGCCAGCACCTGGCCACAGATTAGCTCAACTGGCCACAGTCTGTGATG  
ACAATCTTCTTGGATGTCTCCCACTCTTAGAGCCGAAAGATTCTATTTTCTTCACGACG  
TCCATGCCCTCTTTGACGTGACCGAACACAACATGCTTGCCATCCAACCACTGTCTTT  
ATGGTGCAGATGAAGAACTGGGAGCCGTTGGTGTAGGACCAGCATTAGCCATGGACAGG  
ACACCTGGCCCCACGTGCTTCAGTGCAAAGTTCTCGTCAGGAAAAGCGGCTTCCGTAGAT  
GGAATCCCCGCTGTGCCATTGTGGTTGGTGAAGTCGCCCCGCTGGCACATGAAGGAANG  
GGATCACCTGTGGAAGGGTGGAGCCTTTGTAGCCGAAGCCCTTTCTTACCAGTGCACAG  
GGCTCTGAAGTTTTAGCTGTCTTTGGGACGACATCTGCCTTCAGCTTCAGCACCACGC  
CGGGCCGTTNTAGAACTTAGNGGATCCCCCGGGCTTGCANGGAATTCGATATCAAGCTT  
TATCGATACCGTCCNACCTCGAGGGGGG

Sequence 37

CCGCGGTGGCGGCCGAGGTACAAGCTTTTTTTTTTTTTTTTTTTTGGTGGTAATATAT  
TGCTGCACTGAGTGTGTGCAATTTTTATTCAAGGTCATCGTGATGCTGAGAAGTTTCGT  
GATAACCTGTCCATCTCTAGTTTCAACCGTCTTAATCAGAAGTGTCTTTTTGAGTGGGT  
ATCAACCAGAGGGAGTGAATCCAGATTAGTTTCCCTCAGGTTCAGGGAGGAAAAGTTTGG  
AAGAGGCAGAGAAATCCTGCTCTCCTCGCCTTCAGCAGCTTCTGTAGGTGGCAATCTC  
AATGTCAAGGGCCATCTTAACATTGAGCAAGTCTTGGTATTCACGAAGGTGACGAGCCAT  
TTCCTCCTTCATATTCTGAATCTCATCTGCAGGCGGCCAATAGTGTCTTGGTAGTTAGC  
AGCTTNAACGGCAAAGTTCTCTTCCATTTACGCATNTGGCGTTCCAGGGACTCATTGGG  
TTCTTTAAGGGCATCCACTTCCAGGTGAGGGACTGCACCTGTCTCCGGTACCTN

Sequence 38

AGGTACCTTACAAAAGTTAATGCATTAGACACTTCAGATGTAACTGCTCTAAACAAAAC  
TCCTAAGTCTGTCTATGCAATATATATTTTATATACATATATATTTTACATAGAATAC  
CCACAAAGTGCAAGCCAATAATAACATTGCAG/AAAAGTAATACATATCTGCTAGGTGACA  
ATATCAAACAATTCAGGGAATAATTTTACTTTAATTAACATTAACAGAATTTCTTTTCC  
ACTTCAAATCAATCATATTTCTGTCTATCTNCAACCTAAGATATTTTATAGATTGTCTCCC  
TATTCTTTGATTCAAAAGCCAATTACAGAACTATGAACCTTGACCTAATTCTGGTTTTTG  
ACAATTATGAGACAGAAATAAAGAAATGCAAGCAGTTCTTTTCTTGCACACTGACCATT  
TTTTAATTACATCATCTCTATGATGATGGNGCTTTCACAACTGCAGCTCTCCTGTATGT  
CAAAATCATTCTGGTTTCCAGGTNAATGGACAAAGGAGATTGGCTTCAGTGTCTAGAAG  
GCAATTTACTTTTCCAGGCTGCCTTAATTACC TATAGGTT

Sequence 39

CCGCGGTGGCGGCCGAGGTACTCCAGGCGGGGACTCAGGTTATCAAAAGTGCAGGAGCTC  
TGATCAGCATGGACCACTTCTTCAAAGAATTTCCCTGCTGGCCGTTTGTAGGGGTTGTG  
GTAATTTCTATAACCAGTAATGTCTGGGGTGGTGTCTCTCTCCAGGAGACTGTGAGCACT  
CCAGTGTGAGGGTTTGCCTCCAGATGCAAGTTTGTGGTGGAGACAATGGTGTCAACCACT  
TTGTTTACAATTGGCGCATCTCTTCTGTCCATCTCTCAGGACTTGGATGGTGTAGACC  
GTATTCTACTCCTGGAGTCAAGCCGGACACAACGATGCTTCTGAGTCTGAAGTCACTTN

Table 2

TCGTGGTGCCTCTCCTCCCTGGCTTGGTCGTACCTCGGCCGCTCTAGAACTAGTGGGATC  
CCCCGGGCTGCA

Sequence 40

CCGCGGTGGCGGCCGAGGTACCGGAGACAGGTGCAGTCCCTCACCTGTGAAGTGGATGCC  
CTTAAAGGAACCAATGAGTCCCTGGAACGCCAGATGCGTGAAATGGAAGAGAACTTTGCC  
GTTGAAGCTGCTAACTACCAAGACACTATTGGCCGCTGCAGGATGAGATTCAGAATATG  
AAGGAGGAAATGGCTCGTCACCTTCGTGAATACCAAGACCTGCTCAATGTTAAGATGGCC  
CTTGACATTGAGATTGCCACCTACAGGAAGCTGCTGGAAGGCGAGGAGAGCAGGATTTCT  
CTGCCTCTTCCAACTTTTCTCCCTGAACCTGAGGGAACTAATCTGGATTCACTCCCT  
CTGGTTGATACCCACTCAAAAAGGACACTTCTGATTAAGACGGTTGAACTAGAGATGGA  
CAGGTTATCAACCGAACTTCTCAGCATCACGATGACCTTGAATAAAAATTGCACACACT  
CAGTGCAGCAATATATTACCAGCCAGAATAAAAAAGAAATCCATATCTTAAAGAAACAGC  
TTTCAAAGTGCCCTTTCTTGACGTTTTTCAAGGAGCGCAAGGAATAGATTTTGAATAGG  
GAATAAAGCTCTAGTTTCTTAACAAACCCGACCACTTTCTTACAAGGATTTAGAAAAAA  
AGTTTACCAACNATAATCTAAGTATNNCCGGAAAAAANCTTTGNGGCTTAGAATACTTT  
TTTTAAAAAGGNATTTTTGAATACTTTTTAAAAAACTGNNNTTTTT

Sequence 41

CCGCGGTGGCGGCCGAGGTACGATATACGAAGACTCTGAGCTGTTTGCCTCCGATGGTTT  
CCAGTATTTGCCCGTTGTAAAGCTCATTAAAGGCCAACTTTTACTTTCAATATGTGATTCT  
GCAGAATTAATTTTAGGAGGCGCTGATCCATACTGAGAGTATCATCAGAAAATGCATTAT  
TCACAGGTGCCAGCAAAGTGATTCTCCATCTGGCCTCAGAGCAGATGCCAAGCCTAATT  
GGGCCACAAGATCCGTGAAGGTGGTTTGCTGTTTTCCAGCCAGCTCAATAACTTGTGG  
CAGAATCAGGAATTAGGACCTGATCAATCAAATGGATCACACCATTATTTGTCACAATAT  
CCTTTTTGTTCAACATTTTGATTCCATTTACTGTTATACTGTCACCGTCACATCCTATCT  
CAATTGTATTTCTTCCAGCCGTCTCAAAGACTGCTCCTCCCATATAGACTCAGAACAC  
TGGAGAGTATTTAAGATGTGGTACCT

Sequence 42

AGGTACTTCTGTTTAAAGCCGGTCCATGAGCAGGCCATTCCAGGGGGCACACAGCACTCCG  
AACTGAGTGAAGGCAAAGGCATTTGTGTAGGTGCTGACTCGTGCCATGTCCCCACCGGCC  
ATGTTGGTCAGCAAGGAGTTGAGAGTGCCAATGAAGAGGTAGTGCCACAACCTGTATCACA  
GACAGCCACACCAGGTGCCAGGCAAAGCGCCGAGAGAAAGCGTAGCTCCAGAAGGAGCGG  
AGTTCCTGCTTCTGCCCTGCCCTGGGGTCTCTTCTTCTGCTGAAAGGAACTCCTTTGAC  
TGTAAGCTCCCTGTTTTCATGCTCAGCTGCTTCTTCTTCTTCTTGTGGNGCCATTCCCA  
GGGCACAGGCCATAGCTGTAGTTGGGGGGCAGTGGGTATGGGATGTGCCCCGGGGGCAT  
N:AAGAGGAAAAGTGCCNTGCTTCATGCCAGGTTACCTTNGCCGCTCTAGAACTAGTTGG  
ATCCCCCGGGCTGCAGGGAATTCNATATCAAAGCTTNATCGATACCCGNCCGAACCTTCG  
N/AGGGGGG

Sequence 43

AGGTACAGCTGTCTGCATTGAAAATTCATGCATGGAGAAAGGGAGTAAGCAAGGGAGAAA  
CGGTGCGATTACATATTCCGCGAGATCATCAAGCCAGCAGAGAAATCCCTCCATGAAAA  
GTTAAACAAAGATAAGCGCTTTAGCACCTTCTCAGCCTACTTGAAGCTGCAGACTTGAA  
AGAGCTCCTGACACAACCTGGAGACTGGACATTATTTGTGCCAACCAATGATGCTTTTAA  
GGGAATGACTAGTGAAGAAAAAGAAATCTGATACGGGACAAAAATGCTCTTCAAAACAT  
CATTCTTTATCACCTGACACCAGGAGTTTTTATTGGAAAAGGATTTGAACCTTGGTGTTA  
CTAACATTTTAAAGACCACACAAGGAAGCAAAATCTTCTGAAAGGAAGTAAATGATACA  
CTTCTGGTGAATGAATTGAAATCAAAGAATCTGACATCATTGACAACAAATGGTGTAAT  
TCATGTTGTAAGATAAACTCCTCTATCCAGCAGACACACCTGTTGGAAAATGATCAACTG  
CTGGNAATNCTTAATAAATTAATCAAATCCATCCAAATTTAAGTTTGTTCGGGGTAGCAC  
CTTCAAANGAAATCCCCGNGACTGTNTNTAAGCCAATNTTAAAAAATCN

Table 2

## Sequence 44

AGGTACTTGAGCTGTGAGGTCATCGGAATCCCGACACCTGTCCTCATCTGGAACAAGGTA  
AAAAGGGGTCACTATGGAGTTCAAAGGACAGAACTCCTGCCTGGTGACCGGGACAACCTG  
GCCATTCAGACCCGGGGTGGCCAGAAAAGCATGAAGTAACTGGCTGGGTGCTGGTATCT  
CCTCTAAGTAAGGAAGATGCTGGAGAATATGAGTGCCATGCATCCAATCCCAAGGACAG  
GCTTCAGCATCAGCAAAAATTACAGTGGTTGATGCCTTACATGAAATACCAGTGAAAAA  
GGTGAAGGTGCCGAGCTATAAACCTCCAGAATATTATTAGTCTGCATGGTTAAAAGTAGT  
CATGGATAACTACATTACCTGTTCTTGCCTAATAAGTTTCTTTAATCCAATCCACTAAC  
ACTTTAGTNATATTCAGTGGNTTTACACCNAGAGAAATACAAAATAAAGGATCACACATCA  
AGACTATCTNCNNGAAAAAAATNNCNNTAAATNAAAANGGCTTGCCCTNGGCCGTTCT  
TANAAC TAGNG

## Sequence 45

AGGTACGATATACGAAGACTCTGAGCTGTTTGCCTCCGATGGTTTCCAGTATTTGCCCGT  
TGTAAGCTCATTAAAGGCCAACTTTTACTTTTCGATATGTGATTCTGCAGAATTAATTTAA  
GGAGGCGCTGATCCATGCTGAGAGTATCATCAGAAAATGCATTATTCACAGGTGCCAGCA  
AAGTGTATTCTCCATCTGGCCTCAGAGCAGATGCCAAGCCTAATTGGGCCACAAGATCCG  
TGAAGGTGGTTTGCTGTTTTCCAGCCAGCTCAATAACTTGTTTGGCAGAATCAGGAATTA  
GGACCTGATCAATCAAATGGATCACACCATTATTTGTCACAATATCCTTTTTGTTACCA  
TTTTGATTCCATTTACTGTTATACTGTCACCGTCACATCCTATCTCAATTGATTTCTT  
CCAGCGTCTCAAAGACTGCTCCTCCCATAATAGACTCAGAACACTGGAGAGTATTTAAGA  
TGTGGTACCTT

## Sequence 46

GGAGCTCCCCGCGGTGGCGGCCGAGGTA CT CAGAAAGTGTCTGGAATGGGGCCCATGAGA  
TGGTTGTCTGAGAGAGAGCTTCTTGTCTACATTTCGGCGGGTATGGTCTTGGCCTATGCC  
TTATGGGGGTGGCCGTTGTGGCGGTGTGGTCCGCCTAAAACCATGTTCTCAAAGATCA  
TTTGTGCCCCAACTGGGTTGCTGACCAGAAGTGCCAGGAAGCTGAATACCATTTCAG  
TGTCATACCCAGGGTGGGTGACNAAAGGGTCTTTTGAAGTGTGGAAGGAACATCCAAGA  
TCTCTGGTCCATGAAGATTGGGGTGTGGAAGGGTTACCAGTTGGGGAAGCTCGACTGTCT  
TTTTCTTCCAATCANGGGCTCGCTCTTCTGATTATNCTTNAGGGCCAATGACATNAATT  
GCAATATTCGGTTCCTCCGTTTCCAGGGCCAACCAATANTGGGCCCTCTTGGGACCGCCC  
AAAGGANGNGTTCCTTNGGNNCAAATTTTTNTTNGGAGNGAGCATNCAACCCTTTTG  
GNCGTTTTCTTATGAAACTAAGTGGGATCCCCCCNNGGCTTGGCAGNGNAATTCCGGAA  
TTTTCCAAGNCTTATTCCATACCCCGNCAACCCTTCGAGGG

## Sequence 47

AGGTACGATATACGAAGACTCTGAGCTGTTTGCCTCCGATGGTTTCCAGTATTTGCCCGT  
TGTAAGCTCATTAAAGGCCAACTTTTACTTTCAATATGTGATTCTGCAGAATTAATTTAA  
GGAGGCGCTGATCCATGCTGAGAGTATCATCAGAAAATGCATTATTCACAGGTGCCAGCA  
AAGTGTATTCTCCATCTGGCCTCAGAGCAGATGCCAAGCCTAATTGGGCCACAAGATCCG  
TGAAGGTGGTTTGCTGTTTTCCAGCCAGCTCAATAACTTGTTTGGCAGAATCAGGAATTA  
GGACCTGATCAATCAAATGGATCACACCATTATTTGTCACAATATCCTTTTTGTTACCA  
TTTTGATTCCATTTACTGTTATACTGTCACCGTCACATCCTATCTCAATTGATTTCTT  
CCAGCGTCTCAAAGACTGCTCCTCCCATAATAGACTCAGAACACTGGAGAGTATTTAAGA  
TGTGGTACCT

## Sequence 48

CCGGGCAGGTACAAAGCAGGAGAATGATGCTCCAGCTGAGCTGCAGGATGGGCGCTGGG  
CTGACTGGAGGGGTAGACGGGGTGGGGTCTGACCCATTAGCCTTTCCCATCCAACCTG  
GGCCCCATAAGCCATTCTCTGGCCCTCTGCACAAGACAGACTCAGCAAATCTGCGAGGT  
ATGGGGATTCTGCCAACTCCCCACCTCGCCTACCTTCCCTAGGTCTGCCGGGTGACCCA  
ATCCACTGGGTGCAGCCCCACCCCGCTCAACCCACATNTGGACAGACACATGGCAAAT

Table 2

ATGGAAGTGAAGCCCGGCTGGGCTGGGAGCACATCTTGGTTGTTGTTGGGTTGGAGTCCG  
TCTTGCANGTGTCCCAAGGTGGTCAGGCCTNACCCACAGTGGCCAGGTTTGAGACCGTGT  
TTTT

## Sequence 49

CTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGAGGAATGAATAG  
AAAGGCTTCCAGATGTCTAAAAGATTCTTTAACTACTGAAGTGTACCTAGGTAAACAA  
CCCTGTTGAGTATTTGCTGTTGTCCAGTTCAGGAATTTTGTGTTTGTCTATATG  
TGCGGCTTTTCAGAAAGAAATTAATCAGTGTGACAGAAAAAAATGTTTATGGTAGCT  
TTTACTTTTTATGAAAAAAATTTATTTGCCTTTTAAATCTTTTCCCCATCCCCCTCC  
AAAGTCTTGATAGCAAGCGTTATTTTGGGGGTAGAAACGGTGAAATCTCTAGCCTCTTG  
TGTTTTGTTGCTGTTGTTGTTGTTGCTTTATATAATGCATGTNTTCCTAAAAATAAAT  
TAAAAA

## Sequence 50

CACGCTGGTTTTGCATCTTCAGGAGACGCTCGTAGCCCTCGCGCTTCTCCTCGGCCAATT  
CGCGGAAGAAGTGGCTCACGCCTTCCAGAGCCACATCATCGCGGTGAAATAGAAGCCCA  
GAGAGAGGTAGGTGTAGGAGGCCGNAAAACGGTGCTGGCAGGTCCCAGAAGCAGGAGAT  
GGCCGAGAAGATGGTCCCGGAGGTTGCAAGCGGAGAGGAAATCGGAGGGCGGTGCGAGGC  
TGGAAGAGAGTCCCCGGATCTGTTCCGTCCAAACACTGTTGAAGCAAGAGACAGACCCGC  
GGACCTGCCCC

## Sequence 51

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAACCTCATTGAAGTGCCTA  
CCACGGGGAAAGCATCAGCATGCTGATTGCACTGCCGACTGAGAGCTCCACTCCGCTGTC  
TGCCATCATCCACACATCAGCACCAAGACCATAGACAGCTGGATGAGCATCATGGTGCC  
CAAGAGGGTGAGGTGATCCTGCCCAAGTTCACAGCTGTAGCACAAACAGATTTGAAGGA  
GCCGCTGAAAGTTCCTGGCATTACTGACATGTTTGATTTCATCAAAGGCCAAATTTGCAAA  
AATAACAAGGTGAGAAACCTCCATGTTTCTCATATCTTGCAAAAAGCAAAATTTGAAGT  
CAGTGAAGATGGAACCAAGCTTCAGCAGCAACAACTGCAATTCTCATTGCAAGATCATC  
GCCTCCCTGGTTTATAGTAGACAGACCTTTTCTGTTTTTCATCCGACATAATCCTACAGG  
GTGCTGTGTTATTCATGGGGCAGATAAAACAAACCCTGAAGAGTATACAAAAGAAACCAT  
GCAAAGCAACCGACTACTTTTGCTTACGAAGAAAGACTCCTTTCCTGCATCTTTTCATAG  
GTCTGGTAAATATTTTGTACCTCGGCCGGCTTCTAGAACTAGTGGATCCCCCGGGCT  
TGCANGGAAATTCANATCAAGGCTTATCGATACCCGGCCGACCTCGANGGGGGGGGGCC  
CGGTCCCCAAGCTTTTGGTT

## Sequence 52

AGCTCCCCGCGGTGGCGGCCGAAGTACATCATTTTCATGTCATCCTGTTGGCACTGATGAA  
GAACCCCTTACAGTTCAGGGTTCCGGAAGTCTACCAAGTGCCACTCTGACAGGCCTCACC  
AGAGGTGCCACCTACAACATCATAGTGGAGGCACTGAAAGACCAGCANAGGCATAAGGTT  
CGGGAAGAGGTTGTTACCGTGGGCAACTCTGTCAACGAAGGCTTGAACCAACCTACGGAT  
GACTCGTGCTTTGACCCCTACACAGTTTCCATTATGCCGTTGGAGATGAGTGGGAACGA  
ATGTCTGAATCAGGCTTTAACTGTTGTGCCAGTGCTTAGGCTTTGGAAGTGGTCATTTT  
AGATGTGATTCATCTAGATGGTGGCATGACAATGGTGTGAAGTACAAGATTGGAGAGAAG  
TGGGACCGTTCAGGGAGAAAATGGCCAGATGATGAGCTGCACATGTCTTGGGAACNGAAAA  
AGGGAGAATTCAAGTGTGACCTTATGAGGCAACCGTGTTACCGAT

## Sequence 53

CCGCGGTGGCGGCCGAGGTACAGGCTGACAGAGAAGATTCCCGAGAGTAAATCATCTTTC  
CAATCCAGAGGAACAAGCATGTCTCTGCCAAGATCCATCTAACTGGAGTGATGTTAG  
CAGACCCAGCTTAGAGTTCTTCTTTCTTCTTAAGCCCTTTGCTCTGGAGGAAGTTCTCC  
AGCTTCAGCTCAACTCACAGCTTCTCCAAGCATCACCTGGGAGTTTCTGAGGGTTTTT  
TCATAAATGAGGGCTGCACATTGCCTGTTCTGCTTGAAGTATTCAATACCGCTCAGTAT

Table 2

TTTAAATGAAGTGATTCTAAGATTTGGTTTGGGATCAATAGGAAAGCATATGCAGCCAAC  
CAAGATGCAAATGTTTTGAAATGATATGACCAAAATTTTAAGTAGGAAAGTCACCCAAAC  
ACTTCTGCTTTCACTTAAGTGTCTGGCCCGCAATACTGTAGGAACAAGCATGATCTTGTT  
ACTGTGATATTTTAAATATCCACAGTCCT

Sequence 54

AGGTACGATATACGAAGACTCTGAGCTGTTTGCCTCCGATGGTTTCCAGTATTTGCCCGT  
TGTAAGCTCATTAAAGGCCAACTTTTACTTTCAATATGTGATTCTGCAGAATTAATTTAA  
GGAGGCGCTGATCCATGCTGAGAGTATCATCAGAAAATGCATTATTCACAGGTGCCAGCA  
AAGTGTATTCTCCATCTGGCCTCAGAGCAGATGCCAAGCCTAATTGGGCCACAAGATCCG  
TGAAGGTGGTTTGCTGTTTTCCAGCCAGCTCAATAACTTGTGGCAGAATCAGGAATTA  
GGACCTGATCAATCAAATGGATCACACCATTATTTGTCACAATATCCTTTTTGTTACCA  
TTTTGATTCCATTTACTGTTATACTGTCACCGTCACATCCTATCTCAATTGATTTTCCTT  
CCAGCGTCTCAAAGACTGCTCCTCCCATAATAGACTCAGAACACTGGAGAGTATTTAAGA  
TGTGGTACCT

Sequence 55

CCGGGCAGGTACGAGTGGCAGTTGAGGGGATCCCCGTTGGTCAGCGCGAACTGCCCGTGG  
GTCGGCTGGGTGCGCGGCATCCTGCCCTCTGCACCGCAAACCATATTTGCCTTGTTCA  
AGGTCCCAAACCGCTTGCACTTCTCCTAACTGGAATAACTCTCCTTTAGTTTGGCGG  
GTGAAATAAATGCTTTGTTGGCCCCCTGAAAAGATGTGTCTTTGATAATTAAGAGAATC  
TCCTACCT

Sequence 56

CCGCGGTGGCGGCCGAGGTACAGGCTGACAGAGAAGATTCCCGAGAGTAAATCATCTTTC  
CAATCCAGAGGAACAAGCATGTCTCTCGCCAAGATCCATCTAACTGGAGTGATGTTAG  
CAGACCCAGCTTAGAGTTCTTCTTTCTTTCTTAAGCCCTTTGCTCTGGAGGAAGTTCTCC  
ANCTTCAGCTCAACTCACAGCTTCTCCAAGCATCACCTGGGAGTTTCTGAGGGTTTTCT  
TCATAATGAGGGCTGCACATTGCCTGTTCTGCTTGAAGTATTCAATACCGCTCAGTAT  
TTTAAATGAAGTGATTCTAAGATTTGGTTTGGGATCAATAGGAAAGCATATGCAGCCAAC  
CAAGATGCAAATGTTTTGAAATGATATGACCAAAATTTTAAGTAGGAAAGTCACCCAAAC  
ACTTCTGCTTTCACTTAAGTGTCTGGCCCGCAATACTGTAGGAACANGCATTGATCTTGT  
TACTGGGATATTTTAAATATCCACAGTACCT

Sequence 57

AGGTACACCTTGAATGACAATGCTCGGAGCTCCCCTGTGGTCATCGACGCCTCCACTGCC  
ATTGATGCACCATCCAACCTGCGTTTCCTGGCCACCACACCCAATTCCTTGCTGGTATCA  
TGGCAGCCGCCACGTGCCAGGATTACCGGCTACATCATCAAGTATGAGAAGCCTGGGTCT  
CCTCCCAGAGAAGTGGTCCCTCGGCCCGGCCCTGGTGTACAGAGGCTACTATTACTGGC  
CTGGAACCGGGAACCGAATATACAATTTATGTCATTGCCCTGAAGAATAATCAGAAGAGC  
GAGCCCCGTGATTGGAAGGAAAAAGACAGTTCAAAAGACCCCTTTCGTCACCCACCCCTGGG  
TATGACACTGGAAATGGTATTCAGCTTCTGGCACTTCTGGTCAGCAACCCAGTGTGGG  
CAACAAATGATCTTTGAGGAACATGGTTTTAGGCGGACCACACCGCCACAACGGGCACC  
CCCATAAGGCATAGGCCAAGACCATACCCGCCGAATGTAGGTGAGGAAATCCAAAT

Sequence 58

CCGCGGTGGCGGCCGAGGTACTCAGAAGTGTCTGGAATGGGGCCCATGAGATGGTTGTC  
TGAGAGAGAGCTTCTTGTCTACATTGCGCGGGTATGGTCTTGGCCTATGCCTTATGGGG  
GTGGCCGTTGTGGGCGGTGTGGTCCGCCTAAAACCATGTTCTCAAAGATCATTGTGTC  
CCAACACTGGGTGCTGACCAGAANTGCCAGGAAGCTGAATACCATTTCAGTGTACATAC  
CCAGGGTGGGTGACGAAAGGGGTCTTTGAACTGTGGAAGGAACATCCAAGATCTCTGGT  
CCATGAAGATTGGGGTGTGGAAGGGTTACCAAGTTGGGAAGCTCCGCTGTNTTTTCTCT  
TCCAATCANGGGCTTTGTTCTTCTGATTATTCTCAGGGCAATGACATAAAATTTGTNT  
ATTCNNGTCCCCCGGGT



Table 2

## Sequence 59

AGGTACACAGTCAGTGTGGTTGCCCTTGCACGATGATATGGAGAGCCAGCCCCTGATTGGA  
ACCCAGTCCACAGCTATTCTGCACCAACTGACCTGAAGTTCAGTTCAGGTCACACCCACA  
AGCCTGAGCGCCCAGTGGACACCACCAATGTTTCAGCTCACTGGATATCGAGTGC GG GTG  
ACCCCCAAGGAGAAGACCGGACCAATGAAAGAAATCAACCTTGCTCCTGACAGCTCATCC  
GTGGTTGTATCAGGACTTATGGTGGCCACCAAATATGAAGTGAGTGTCTATGCTCTTAAG  
GACACTTTGACAAGCAGACCAGCTCAGGGTGTGTCAACCACTCTGGAGAATGTCAGCCCA  
CCAAGAAGGGCTCGTGTGACAGACGCTACTGAGACCACCATCACCATTAGCTGGAGAACC  
AAGACTGAGACGATCACTGGCTTCCAAGTTGA

## Sequence 60

AGGTCAAAGATTTATTGAAGCAGAACCAAGTTGGTTGGATACTTGCTGGAAAAAAAAAAAA  
GCAGTTTTAATAGTATTCAAATACCTTTTAAAAAGTATTCTAGCACAAAGATTTTCTGT  
AAACTAGATTATGTTGTAACTTTTTCTAAATCTTGAGGAGTGTGGTTGTTAAGAAC  
TAGAGCTTATTCTATTCAAATCTATCTTGCCTCCTGAAAACTGCAGAAAGGCACTT  
GAAAGCTGTTTCTTAAGGATATGGGATTCTCTTTTTATTCTTGCTGGTAATATATTGC  
TGCACTGAGTGTGTGCAATTTTTATTCAAGGTCATCCGTTGATGCTGAGCAAGTTTTCCG  
TTTGATAACCTGTCCCATCCTCTAAGTTTCAACCGGGCTTAAATCAAGAAGTGTCTTTT  
TGAGTGGGGTATCAACCCNGAGGGGAGGTGAAATCCAGATTAGTTTTCCCTCAGGGTTCA  
GGGGGAGGGAAAAAGGTTTT

## Sequence 61

CCGCGGTGGCGCCGAGGTACAAGAGTGTTCATGAAATCCGTTTTTAAATGAACATCT  
CTGTGTGCCACAGTTCCTAGGACTGGGGCAAGGACACAGTGTCAAGTCTTGTTTGAGGA  
TGAGTCTCTGAAGAGACAGAATTCCTGCCAGAATGCGCACAGAACATAAGTCAGCCAAGT  
GTGTCGTGCCAGGGATACTTTGACTTTGGTTTGCTGCTGCTAGGGATATTGGGAGGG  
TTATCCTTTCCAGTTGTAGGAGAGGGTTGTGGGTAAAGGTCTGTCGTAAAGGACCCCTG  
GCTGCTAGCTCCAACCTGATTCCGCATGCGTTGTTACGCTCTCGCAGCTGACGCGTCATT  
TCAGCATTTTTCCAGCCTTTTTGAAGCTCTCTAGGAAGCCTTCCCGTGGAGGTAATTTG  
TCCAGGTCATGTACCTGCCCCGGCGGCCGCTCGAGTAATACGGTTATCCACA

## Sequence 62

AGGTACTCAGAAGTGTCTGGAATGGGGCCCATGAGATGGTTGTCTGAGAGAGAGCTTCT  
TGTCCTACATTGGCGGGTATGGTCTTGGCCTATGCCTTATGGGGGTGGCCGTTGTGGGC  
GGTGTGGTCCGCCTAAAACCATGTTCCTCAAAGATCATTTGTTGCCAACACTGGGTTGC  
TGACCAGAAGTGCCAGGAAGCTGAATACCATTTCCAGTGTACATACCAGGGTGGGTGACG  
AAAGGGGTCTTTTGAAGTGTGGAAGGAACATCCAAGATCTCTGGTCTATGAAGATTGGGG  
TGTGGAAGGGTTACCAAGTTGGGGAAGCTCCGCTGTCTTTTTCTTCCAATCAGGGGCTC  
GCTCTCTGATTATTCTTCAGGGCAATGACATAAATTGNTNTTCGGTTCCTCGG

## Sequence 63

AGGTACTGAGGAATGAATAGAAAGGCTTCAGATGTCTAAAAGATTCTTTAACTACTGA  
ACTGTTACCTAGGTAAACAACCCTGTTGAGTATTTGCTGTTTGCCAGTTCAGGAATTTT  
TGTTTTGTTTGTCTATATGTGCGGCTTTTCAGAAGAAATTTAATCANTGTGACAGAAAA  
AAAAATGTTTTATGGTAGCTTTTACTTTTTATGAAAAAAAAATTATTGCCTTTTAAATT  
CTTTTCCCCATCCCCCTCCAAAGTCTTGATAGCAAGCGTTATTGGGGGTAGAAACGG  
TGAAATCTCTAGCCTCTTTGTGTTTTGTTGTTGTTGTTGTTGTTTATATAATGCA  
TGTATTTACTAAAATAAAATTTAAAAAAGTCTGTCTTGCTANACAAGGTTGCTGTTGTG  
CAGTGTGCCTGTCACTACTGGTCTGTACCTCGGC

## Sequence 64

AGGTACATTTGCCATCTCTGGTTAGTTGATTTCTGTCTGTTCCCTTCACTGATAATCTT  
GGCATTTTCACTCTGAAGAACAAGTGGGGCTCTTCTCTGCCATGGCCATGCTGCCTTGG  
GCTGTGGTGACTCATGTATGTGTCTGTCTCTGCACTTGAATGTGAGCTCTGTGTGGTT

Table 2

TTTCTGTTCTCTCATTAGCAGGTTCTGCTCCCTGGGCACAGAGGAGGTCATGAGTTGAG  
AGTGGGCTGTGCGTGCATCCTAGAATCTCAGCCTTCTTGGAGCAGCGACTATTATATGCT  
CTGGTGGGCTCTCATCTCCATCCGATTAAGTGTTCCTTTGGCTGCCACGCCAGCTGGA  
TGA CTGGGGGTTCTCTTACCATCATGAAGCTGTCAACACCCACGGTGGGCCCTCTCA  
GACGGGGGCGGC

Sequence 65

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTA CTGTGATATCCACATATTTTTG  
AGAAAAATTCCAAGCCAGGCGAATGTGGATTGGAATAAAGACATAGGCAGTGTATACCA  
CCATAGCAATAATGGTTAGTAAGATGGTGTAAACATAGATCGCTCCAGGGCTCTAAAA  
CAGCACAGCAGCTAATGATTTGGTATTGATAGTAGAGCCAGGAGAAATATTCCTTCACAC  
GCCTCAAATCCATGGTTGGCTCCTCAAGCTGCAGTAAGTTTGTCTTAAGAAAGTCCAGG  
TCTGGTCTTCAGCCTTGCTCCTTCGCGAAATGATCCTGTGTGGGTTAGTTCCTCTCT  
GGGTTGCTGTTTCTCATCTCCAGTTGGGTGTATCTCCCTGCGGCTTANGTGAGCGCCG  
AGGCTTTGGCTCCTCCCCAGCTGACCT

Sequence 66

CATAAAGTTGTAAAGCCCTGGGGTGCCTAATGAGTGAAGCTAACTCACNATATAATTTG  
CGTTGCGCTCACATGCCNCGCTTTTCCAAGTTCGGGTAAACNCTGTCNNTGCANAGCCTT  
GCAATTAATGGAAATCGNGTCAAACANNCGNCGAGTTGAAGAAGGCCNNATTATGTTTT  
TAATTTGGGAGTCGCTTTTTTTTCNGCCTTTTNCNTNNGGNTTNNATNATGAAACTNAG  
NTTNGNGANTTCTCCCCCTNGGGGNCCTTTANNTANTGAAANATTTCTNAAATTNTTT  
NAAAAGNCTTTTATTCTNGAATTACCCCNCTTTTCGACCCCTTTTCGGNAGNGGGGGGGG  
GGGCCCCCGGGGTTACCCNCCANNCTTTTTTTGGGTTTTCC

Sequence 67

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGAATCATATTCTAAGA  
TTATGTGCAATATATGTGTAGAAAGAGGCATTTAAAAAAGAGGCAGGAGATTGAGAAG  
AGACATATTGAATGAGGCACTAATCTTTAGAAAAATGATCTTTTACTGAATCAAGCCATG  
CTCATTCTTGCTGAATCCAACAGCCCCAAATCTCTTTCTTATATTGGCTGTTAATTT  
TTTTCTTGACCATCCTAGATTGTTAACAACCATTCACAGTTGGCTCATGTATCCTTA  
CACTCTGAGTTATAATAAGTTGATTTTTATAAACAATACTAAATATTCAAGTTTTAA  
GGCGCATGGAACTGAATCTAGGCAACGGG

Sequence 68

CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAAAAGAAAACCAT  
TTCTTTTCTCTTTTCCCCCAGCATCATGCAAGGCAAGGCAACACCACAAATACAATAAC  
TGAATTTACTTTGATTATACTTTAGTTTCTTACACTTAAATTTATTTTGTATTATAATAC  
TTACTTGGTTATCTAAAATCAACATTGTGCGATTTTAAACGGTTATAAAGCCAGACTTTAA  
GAAGCATTTAAACAATTCATGAACCTGTATGAAAGGAAATAATTGCCTCCAGCTTATT  
CTTTTGCATTTGAAGTAAAGAATTTCCAGTATCATCAGTTTACTAGAAAATAAGACTTA  
GGGGGTCCATATAATTTATTCACATCTTTTATACATCGTAAACAAGGATAGGATACTTC  
TGACAGTANCTATAAAAGATTTTTTAAAAATTTATCC

Sequence 69

AGGTACAAACTGTTTTGAAGCCAGTTCATCATAAGGAAGGACAAGAACTAACTGCTTTGC  
TGAATACTCCACATATTCAGGCACTTTTACTGGCCACGATAAGGTTGCTGAGCAGGAAA  
TGCAGCTAGAGCCATTACAGATGAGAGAGTTTATGAAAGTATTGGCCAGTATGGAGGAG  
AACTGTAAAAATAGTTCTGATAGAAAAGGCTCGTGATATTCGGTTGGGTGCTACAGTTC  
GTAATGAAATGGA CTCTGTCATCATTAGCCGGATAGTAAAGGGGGTGCTGCATAGAAAA  
GTGGTCTGTTGCATGAAGGATATGAAGTTTCTAGNAGTATTAATGGCATTGAAAAAT

Sequence 70

GTCCTCTGTTTTTAACTGTAAAGGACTCCAGCGGATTGTTTCAAGTCTCCGATATCCCG  
CGATCTGGTGGCCGAGAAAGAGAGGCCGAGTCGGCGGGGACTGGGAACCACCAGTTAG

Table 2

CGGCCTACGGGCAACCTCCCGGACGCGCGCGCCGGGCGACGTTAAACGTACCT

Sequence 71

AGGTACCCGGCAACAGACCCTTTTTGCTGATATTAGCACCAGAGAAAGCTTACAGCAATC  
TAAGGTCCCAGGCTCTGGGTTCTCAGATGCCAGTCATTAGATTCTCGTGGGTTAACAGAG  
ATGGGAAAAGTCAATGGGGAAAATGTGCGAATGATCGATTCTTCGATTGTCGGATTGAG  
GGTGGCACAATGTCTTAGGCGGCGGGGTAAGTGAAGTCAAGCGAACCTGTTTCGTTCCCT  
AGGCGCCCCTGTCTCAAGAGGCGGCCCCGAAGGTGATCCGCCCCCAGAGCAGGAAACC  
AGCCACCAAGTCCCAGCAAACCTCTCCTCCGAGCCTGGGATGAGGAA

Sequence 72

AGGTACAGAATCATATTCTAAGATTATGTGCAAATATATGTGTAGAAAGAGGCATTTAAA  
AAAAGAGGCAGGAGATTGAGAAGAGACATATTGAATGAGGCACTAATCTTTAGAAAAATG  
ATCTTTTACTGAATCAAGCCATGCTCATTCTTGCTGAATCCAACAGCCCCAAATCTCTT  
TTCTTATATTTGGCTGTTAATTTTTTCTTGCAACCATCTAGATTGTTAAACAACATTG  
CACAGTTGGCTCATGTATCCTTACACTCTGAGTTATAATAAGTTGTATTTTATAAACAA  
ATACCTAAATATTCAAGTTTTAAGGCGCATGGAACTGAATCTAGGCAACGGG

Sequence 73

NGGCAGGTACTTTCTTAGCATATGTTTTCTCATATGTTCTGGGGTTTTAGACTGTAGA  
CTAATCTGGAGTTGGAGTCTGTGCCTCTCCACTNTCCACCAACCAGGCGGGCCCATCACA  
TACTGATAGGAAATACCTGAAACCCAGGCCANCAGGCAGCTCGGCCATGGCTGAGAGGCT  
GTGTTTTAGAAACGAGGCTCTTGGGAATGGGGCAGAACTTTTTNAGGCCTTTTCAAAN  
CANATGGANCTCCATTGCAATTAATACCCCACTGCTGCTTNTAGACGCCGCTATTTCTTTC  
TTCAATGCTNCTTATGGCTTTGNGTNGCCGTTTCATTTCTAGTACCTCGGCCCNCTCTAA  
AACTAGTGGATCCCCNNGGCTGCAGGAAATTCATATTAAGCTTATTGATACCGNCGAA  
CCTNGAAGGGGGG

Sequence 74

TTGGAGCTCCCCGCGGTGGCGGCCGGTTCCTTGTGTCTTAAAGCAAACACAGGCACAGTA  
TTCTGGGCAAACCAGATGTTAATAGCTTGACCTCTCTGTCAAAGGAGGACTTGGTTGCTT  
AANACCCTTAAAGCTGTCAAAGATNTAGCTTNTCCAGGATACTATCATCCTCACCCATT  
CTTATTCTCTTTGAGGGAGAGATCATCTCTCAAAAAGCTCCCATCAGAGCAACCATTCT  
GGGACTTTGAGC

Sequence 75

TTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTAGTGTTTAGCAAAAAGGGACTATGG  
AATGTCAAACANGAACATATATGTTAAACATAAACATGAAGCAGTGCCAGCTGCTGTCTG  
CCATATAGNCATGCTTNGTTAATGTGGCACATCTTGCCATGATGGTGCCCTCATGAAACG  
AAGGATGCTGAAGCAGATGCCATTCTGTTTGCTTTGATCAGAAGCCACTCTNTGGTCAAG  
GAAGNATTNGTNCATGCTTAATTATAACAAGTTCTCATCACAAAGATTATTTCTTTCT  
CCAGATCTGGATTGTNNGCACTCACTTTATATTATNANACAATCACTCAGATTGTTTATG  
TTTTTATGTTTAGAAATAAGACAGTGATTGAGAGAGTCCCTGTATTTAGATGAAAGAA  
TTTTTTAAACATATTGACTGTAACACTGAAAATCATTAATTCTCAACAGTTGAAGGTTT  
CTGACAGGAACGGCCCTTGGAAT

Sequence 76

NCGCCCGGGCAGGTACGCGGGGACACATTCAGAGGTGAGCCAGAGCGGGTAAAGTGGAC  
TGGGGAGAACTTCGGAGGATGTTTCATGTCCAGGAGCANCCCCACGCCCTGTATGGTCGGT  
GTCTAGAGCCTCACAGCAACTAAGACCAACCCANCTCTCAGAAGAAGGAATGTCAAATG  
TCATGTTCAATTTTACATTGAGTGCCTGGAATCTTTCTTCACAATTGAAATGAAATGTG  
CTGAAGGAGGTGAATCCATGCATTAATCTTCAGCTCACAAGGAAATACTACATAAGAAG  
CAAGACCACANACTCAAGACGGACATAATTGGATTTTTTTGCCATGGCTTGAAAGAAA  
GGTACCT

Sequence 77

Table 2

CCGGGCAGGTACTTACCGGGGAGCACAGTGGACTAGGGGATGCCCTTGATAATGACGGTT  
TCCTAGGTGCAAGATCAGAGCATGTGCCTACACCTTGTGCCCTGATGCCGAGGTGGAGAC  
CATTGGGAAATAATTAATAGATATTTTTCTGGGGGAAATCACAAGTCACTGAGGTGTTT  
GTTTGTTTGTTAGGCGGTGCTAGAGCTTGAAGCCACTCAAGCCAGTTGGGGAGGAAAGGG  
ATGCGGAGGTACCTCN

Sequence 78

CNAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGAGAGCGGGTAA  
GTGGACTGGGGAGAACTTCGGAGGATGTTTCATGTCCAGGAGCAGCCCCACGCCCTGTATG  
GTCGGTGTCTANAGCCTCACAGCAACTAANACCAACCCAGCTCTCAGAAGAAGGAATGTC  
AAAATGTCATGTTCAATTTTACATTCAGTGCCTGGAATCTTTTCTTCAATTGAAATGA  
AATGTGCTGAAGGAGGTGAATCCATGTATTAATCTTCAGCTCACAAGGAAATACTACAT  
AAGAAGCAAGACCACANACTCAAGGCGGACATAATTGGATTTTTTCGCCATGGCCTGGAA  
AGAAAGGTACCTN

Sequence 79

TTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTACCGGGGAGCACAGTGGACT  
AGGGGATGCCCTTGATAATGACGGTTTCCTAGGTGCAAGATCAGAGCATGTGCCTACACC  
TTGTGCCCTGATGCCGAGGTGGAGACCATTGGGAAATAATTAATAGATATTTTTCTGGGG  
GGAAATCACAAGTCACTGAGGTGTTTGTTTGTTTGTAGGCAGTGCTAGAGCTTGAAGCC  
ACTCAAGCCAGTTGGGGAGGAAAGGGATGCGGAGGTACCT

Sequence 80

AGGTACCAATTCCCAGCCTGGGCCTTAAGAGGTCTTGCTTGCTTCTGTTCCCTTTGGAAC  
TCTGTTACTGCTGTGAGCACGTGAACAGGCTCACTTGGTGAAGGGGAGCAGCTAAATGG  
AGCATANCCAAGTCATTTTACTTGAGTCTGGCCCTCTCAGACCAGCCGTCAGCCAGCTGA  
CCAAAAATGTGTTAAGACAGAACAGCCAACATCAGCAGAGCCACCTACCTAACCTGTACC  
TGCCCG

Sequence 81

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTTCTTTCCAGGCCATGGCAAAAAA  
ATCCAATTATGTCCGTCTTGAGTCTGTGGTCTTGCTTCTATGTAGTATTTCTTTGTGA  
GCTGAANATTAATGCATGGATTACCTCCTTCAGCACATTTTCATTTCAATTGTGAANAAA  
ANATTCCAGGCACTGAATGTAAATTTGAACATGACATTTTGACATTTCTTCTTGAGAG  
CTGGGTTGGTCTTAGTTGCTGTGAGGCTCTAGACACCGACCATACAGGGCGTGGGGCTGC  
TCTGGACATGAACATCCTCCGAAGTTCTCCCCAGTCCACTTTACCCGCTCTGGGCTCAC  
CTCTGAATGTCCCCGCGTACCTGCCCCG

Sequence 82

TCCTGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGGGGACTGGTAGGTGGTTTGGAT  
TCTGATAGGAGAAAACTGCACACAGCAGGCCAGAGTGGGAATACCTGTATTCTCTATG  
GTAACAGTCAGGTGAATGGAGAACTGGAGAGATATTTTGACGGTTGTCTTTAACTCAA  
TGGAGGGCTTGTGTAGCAANAGATTGTAACTGGCAGCTGCTGGTGGTGAATGGATTAA  
ATCAGCAGTGCTTATAGAAAAGAAATTTGAGTGTTTTATAGATAGGCANATAGTCTCCTGTC  
TTCCCTGTTATCTTGGCTTCCCTTGTTTACGTANCTTATCTACCTCTCATGGAGATATGA  
GTTTGAGATACTTGAAGGTCTGCCAGGAGCAGATGTGTACCTGCCCCG

Sequence 83

GGGGCCATTGAGACTGCCATGGAAGACTTGAAAGGTCACGTANCTGAGACTTCTGGAGAG  
ACCATTCAGGCTTCTGGCTCTTGACAAAGATAGACCACTGGAACAATGANAAGGAGAGA  
ATTCTACTGGTCACAGACAAGACTCTCTTGATCTGTAAATACGACTTCATCATGCTGAGT  
TGTTGTCANCTGCANCGGATTCTCTNANCGCTGTCTATCGCATCTGCCTGGGCAAGTTC  
ACCTTCCCTGGGA

Sequence 84

CCGGGCAGGTACCCAGTGATTACTATATCGGATGGTGCAGGTCTCAGTTCTTTCCACCAT

Table 2

TTTTTCCCCACCATATTTTATATNTTTACATAGGTGAGACAAATGGACTTAGGCCAAAAG  
GTTTACAACCTGGAGAACCAAGTTGGAAGCAAAGAGGTTTTTTTGCAAAGAGGAATCTCTT  
GCAAACAAACCTGGAACCTGGGCTTATTGAGTCAGTTTTCTGACATGTAAGTATGGCTCT  
TTCAGAGCACTAGCACTGGGGCTGTGCTCCCCTGGAGAGGAAGAGCCTTAAGGANGGAAG  
GANGGACCTCTNGAGTCTGTAAAGTNAAGTGTGTTGACAGTTTGAACACACTCCTT  
NTGGCAGNAAAACAACTGCTTGGCTTATTTGATGTAAATCAAAGGAATTCCTTTAA  
ACTGGCTTTTAA

Sequence 85

GAATTGGAGCTCCACCCGCGGTGGCGGCCGCCCGGGCAGGTACCAGACCCGGTGAGAGCC  
CCCATTCCAATGCACCCCATCTCAGCTTNTGGCCAGAAGACCTGAGCAAGTCCNTCCTT  
CTTCCTGGCCTTGGCCTTNCATGGGTGGAACCCGAGGGCTGGCTTAACTCTCCACCAG  
ACTNTTGGCCCGGGACTGTGATGGGCGATTGGCCACTTCTCAATAATCTTCCTGTTTTCC  
TTCCGCTTCTGTTTGGCTTTAGACAGGACCANTGCATCTATAACACCACCTACCTGAAT  
GTCCAGCGGGAAAATGGAACCATNTCCAGATNCGTGGGAGGCCAATAGCATTTGCTCAC  
TTGCTGATCCT

Sequence 86

AATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATTCCCGGGCTGGTTGATT  
GGTAAGCTTTTCATCTGCTGAGAAGATTGAGAAATCTTTCCGATTTAGGCTGAAATTAN  
AACCAATTTCTTGTCTTCCAGCTCTTATTGTGGCCTTTATTCTGCAAAGAAGGCTGCAG  
TGCCAGCGGAGCTGACTGCCAGTGCCAAGTGTGTGACTGACATAACGTATGGAGGTAATC  
CACACGTGTAGCTCAGGAAGGCTATTAATAAGAGGTGCTATTTATGCTGGTTTCCTGGGG  
ACTATACCTAACTGAAAAGGCCAGTTCAAGTACCT

Sequence 87

CGCCCGGGCAGGTACGCGGGGCAGAGCGGGTAAAGTGGACTGGGGAGAACTTCGGAGGAT  
GTTTCATGTCCAGGAGCAGTCCCACGCCCTGTATGGTCGGTGTCTAGAGCCTCACAGCAAC  
TAAGACCAACCCAGCTCTCAGAAGAAGGAATGTCAAATGTCTGTTCAATTTTACATTC  
AGTGCCTGGAATCTTTTCTTCACAATTGAAATGAAATGTGCTGAAGGAGGTGAATCCATG  
CATTAATCTTCAGCTCACAAAGGAAATACTACATAAGCAAGCAAGACCAAGACTCAAGAC  
GGACATAATTGGATTTTTTTGCCATGGCCTGGAAAGAAAGGTACCT

Sequence 88

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGTTGGGAATCTGANTCTCAGGGTTTC  
TGGCCATTTCCTGTTTTAAAAATCCTCCAGTAAGAAATATTGTNGCTGTTTCCTTTCTC  
TTTCTAAGNGTTGATTCAACTTGAGTGTATNACTTATTGGCTGATAAATATTGTCCTTG  
AGGGGAATCGGATCAAACCCAAACAAC

Sequence 89

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCATCCTTCCCACCATTGCCAA  
CATTTAATATTACCATTTTTAACTTTAATCAATCTGACAGGTGAAAAAAGACTTCAC  
TTTCTATGTTGCATTTCTTTTTAGTGAAGATGAACATTTTTTCGNAAGTTCATTAAT  
TTTAAATTTTCTAAACAGCAGTGATCCAATCAATACTCCTCAAGTNGCATTTAAATTT  
TAAAAAACACAGCTATAATCCTACCACTTTGGGAGGCCAAAATGGGAGGACTGCTTGAG  
GCCAGGAGTTCAAGACCAGCCTGGGCAACATAGCAAGGTCCTGTCTCTTAAAAATAAAAA  
AATGTGTGAGATATGGCGGCGTGTGCCTGTAGTCCCAGATACTCAAAGGCTGAGGCAGG  
AGCATCAACTTGAGCCAGGAACCTGAAGCTGCAGGTGAGCCAGGGTCACTCCACTACAT  
TCCAGCCTGGGTGACAGAANAANACCCATTTGCAGATTGTATCATGTTTCNAGATTCTG  
GACTTNATNAAATTTGTAA

Sequence 90

AATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAATCCTGCCCTCAAGAANGG  
TTAAGGTCCAGTTGGAGGAGACTTAGGAGTTNAAGTACCCAGTTCTGCAACCTTAGGTG  
GCTGTCTNATCCTGACAGGAGACAGGGGACACACAAAAACAGTGATTTAGGCGTTAAC

Table 2

AAAGTGGCTTTACAAAGGTGTAGACAGAATATAGGAAATCCAACAAGGCCTGGTGGAGCA  
CCATGAAGCTGGTGACAGCAGGGAACACCCGCGTACCT

Sequence 91  
GGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTCCTGCTCTTGCTGAAGTGCCCTGCAGTC  
TGCTGCCCANGACAAAAGTTGGGGCTACACAGGCTGGCCTAACAATGCCACAGGTGCTG  
ATTTGGAGGGCCGAGAGGAGTGATGCGGGCACTTATAAGAGGAGAGAAAGGAGGAGAG  
CTCACCCCTCAGAGGCTTCTGAGAAGGGGGTGAAGTGCAAAAGTGACAGAGGGCAGGAGAG  
ACCTCAGCATCTACCCAGTATGAGGAGTGATCACAGCTGGGAAGGTGATTCCANAGCAG  
GGGAAAATGCAAGCTCCACTAATAACAATGAGGTGAGGCAACCAGTGACANNGAGGGGT  
TCCACANGACCCAAACCTCACAAATCCAACAGACGACCAACAATANCTGGGGACATGC  
TCAAGACCCACAGAGCAAGTGATGAAGCCAGGGCAAGGGGCAGCAGTGAGGACAAATCT  
CTCCATGANTACCTGCCCCG

Sequence 92  
CCGGGCAGGTACCATATCAGTGGAGAGCTGCAGCAAGGTGGCCCCCTACAGCCCGCAAACC  
AGCCTGCACATTACCTCTCCATACTGCAGCCCTTATATGGAACTTCTTACATCACTTT  
GCTGTGTGTGTTACACAGGTGGGTTTTGCTGTACCT

Sequence 93  
AGGTA CTCAAGCCACCTGCCTGTCTATGGCCCCCAAAATGCTGGGATTGCAGGCCACCAT  
AACCGGT CATCGGGGCAACTATCCTTCAGGGCTTCCTCCAGTAGGGCTCCCAGGTTGGC  
CTTGAGGCCACAATAAAAAATCTGACTTAGCTATACTCCTTCCTGTCCCCAACACAGT  
TATTCCTGTGGATGAGGCAATGGCAGCAGGACAGCTGGAGTATACCAGAGTTGACTCAT  
TTATTTTATGCATGCTTAGTGTGGCATCCCTGGGGACATGAAATTCAGTGAAATCCAGT  
CTTTGTGCTGGAGAAGCTCATAGATCTGTGGAGGAGGCAGATGCCCCACCCACTCACTGTA  
CCTGCCCCG

Sequence 94  
CGAGGTACAGACAACGGATTGAGCTACTTCCTAACACAGTGACTGGGATTCAGGACATAT  
CCANTAAACGCTCTGTTAAGGAANTAAACAAAATAAATAAAACAGGATAGTGGCTGG  
CTGCTCTCTGTGTAGACTGGATTAAAGTAGANCAGGAAAACATGTGGGAGGTTACTGA  
AGTGGTGGTATTGGGANTGAGGACNGGGGAGT

Sequence 95  
GCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAAATGCATATTATTATTCTTTT  
NATATACATATAATGAATNCAAANTNAAATANTAACNTATAATANATGCTCTNCACAGAA  
CATGCTGCAGAATAAATAATAAATGGACAATAAATTATCCTGGTCCTGTNTTGATAGAAA  
AGGAAAATAAAGACTAGAGGTTAAGGCTTGCCAAATGTCATGTATTTAGTTTGAGAACTT  
GTTGGTAGAGCAAAGGGAATTTCTTCCATAAAGTTGAAAGTNCATTACACAAATATTTT  
CTACTTAGTTCCATAGCATTTCTTTGAGAAAAGTAGATATTACCCCTTAATAGTGAGG

Sequence 96  
TGGAGCTCCCCGCGGTGGCGGCCGCGGCCGAGGTACCTGTTATCATCATTCTCAAGAG  
CTGCATGTGGC/CAGCAGGAAGCCAGGCAAGCTCCTGCCATTAGC/CACAACGGCAAAAG  
TGGATGTCTGTGTCAACATTTCTGAAGACCCAGAATGGGCCGTAGATAGGCATGATTTTC  
CTAATGACTTTGGCACACAGGCAAAAAATAGTAATGATAACTACTAATATTATAGGTGC  
TTCCTGTGGCCAGGGGATGTACCT

Sequence 97  
AATTGGAGCTCCCCGCGGTGGCGGCCGACGTNCNCANNTNCTNATCTNTGGTCTNTNCT  
TNAGAGNNAATATGGTTNACCTACNTGNAANCNTNCNCANAANATTTTNNAGAAACCCAC  
TNACATGTGTGAGGAGTANGTTTGCCAAGGTGCCAGACAANCAAGAATTTCAAAGTTGG  
ATGATACAAAGTATAAAACCTNTAATTTTGGCCANGCNCANNGNTNACNCTGTAATCC  
CAGCACTTTNGGAGGCCGAGGCGNGCAGATCACCTGAGGTCAAGAGGTGATNTCAGTCN  
GCCAACATGGCAAAACCCGCTCTNTACTAAAAATATAAAATAGCCAGGCATGGTGGTA

Table 2

CCTGCCCCG

Sequence 98

GGAGCTCCCCGCGGTGGCGGCCGAGGTACATCATTACCAAGTGACCAGTCATTGTGTCAATT  
TCTTTGGAAGTCTGTCAAGTATTGGTCAATGAAGATCTGTTACTCAGTTTACCCCTTAAAT  
ACCAAGGCATGTAGTTGTGTCCCTCCTTATTTCCCAAGTGATGGAAGTTGGTGACAGCTTA  
CAACAAAAGTATGAGCAAAAAAATGAGTTGGTCAGCAAAGGTAAATGTGCAAGAAAAA

Sequence 99

CNAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAGTTGTCTTTATGCTGCGAGATAA  
GTCCTCTCTTGGTTTGAAGCTCCACCTTTTCAAGTGAAGTCTTACATTTTGGGGGATCTGC  
TCTTGTAAGGACATCCTTTCTGGTGAGTATTCTTTTGGTTAATTTTGGTTTGGTTATT  
TGTGCATGAATTTAATCTCATTAGGAAACAAGTTAAGTTGAATAGACCAACTAGTGAATT  
AATCCCGTCACCAA

Sequence 100

CCGGGCAGGTACGCGGGGAGTCACTCAGAGGGCACAGCCTGGAGTGCAGCTCAACAAAC  
ATATGTGTAACAGCCGAGTGCCACCAAGTTAAGAACTGGACTTACAAGATGGATAGGACC  
TGGTGGCAGCTGTCTTGAGGAAGCCAGAGCCTGGAGAGACAGATCTCATGTTATAGCAG  
AGTACCTN

Sequence 101

TTAAGGACAGTTGCGGCTNANGAGAAANGCNCNCCCAAGNTGGCCCTTCATTCCGCAAAAC  
CACCTGCACATTACCTCTCCATACTGCAGCCCTTTATATGGAACTTCTTACATCACTTT  
GCTGTGTGTGTACACAGGTGGGGTTTTTGTCTGTACCTCGGCCCCGCTCTAGAACTANT  
GGGATCCCC

Sequence 102

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATACTTTCTGTGTCTTGCTGTTTTAC  
TACTATATCTTGGAGCTATTTCTATATTGCCACATTCAAAGCTTTTTAAAGCATTTTCA  
GGATAGCTATTTATAGTCAAGATGTATCAGATTTGTCTTATTTACCTGTCCCCCACTG  
ATGAACAGNCTGGTTGCTTCTGTTTGTCTTTTCTGTTATTGTAATAAACATCCTTATAG  
T

Sequence 103

TTGGAGCTCCCCGCGGTGGCGGCCGCGGGCAGGTACACCTCTAGCCTTCACTCACACT  
CCTTTCTATGTTGGTCAAAAGGCAAAACCTCCTGAGTGACAATTACCCCTTCTCAGGTA  
GCAGCCAAAAAGAGTTAATTGTTTCTCATCAGAATCTGCATGTGGCCCCAGAGCATCATG  
TATAGAACTATTCTGGAGTCTTATCATCATATAACTACGTGTCCACTGTGCATCTC  
CAGAAAAGAGATCCTATTATAGTCATCTTTGCTTCTCAGTTTCCACCACGATACTAACAA  
TAGCAGCCATTCAACAGATGGTTGTGGAATGACTAAAATTCTGTGTTCCCTTATTGCATGC  
CTTGCCCTTCCAATAAGCTTTTCAAGAGTATGGATACNGTATTATAAGGTATTTATATAA  
CACCCACACACAGAGACACATAAAGCACCTGGGAATCGCACTTTTCAAGACAGAAAATACC  
CAATAAATCTTACCGAATAAATTAATCAATNGAGAATTAAAGAACAATTTTGCCAGAAGC  
ATAGCTGAATCTGGTGCTCTGACAGAAAAATGGATTCAAGTTATGAAAAACCNGTTATCA  
ATGCTTGNATGTGTNGNAACATNCCANTNCATCTAAATGTGGGTACCTGTGACCCTGGGN  
CGGTTTAA

Sequence 104

GTGTGTGCATACTCCCCCATCTCACCAATATGCTATTTTTGAGCCTCCATCAAGCAGT  
GGGGTCTTTGNITCCTCCTCTTGAACCCGTGCAGACAGGAATTCTNCCCGANCGTTTTG  
GATCTTGAGCATTGTGTTTTAAGAGCACAGNTGCAAGATCAAGANCATGCACCTGGCACT  
GCTAGGTGCNCAGCGCCATCANGCCAGCATCTCCCTTCCCATTTTCTTGTGACCACTGT  
TTAGGCATTGANATTAAGCACTGTATATGTATATGTGTTCAATTGAGAGAGGGGATTAAGT  
TTTTTACTTTTAAATGAAATCAACAATGAAATATCAATTGACATCAAAANAGAGTTTC

Table 2

TTTTAAGCNGTGAAATGAACCAACATGACCGCTGTCGGGTGCATTTTTTAAAAATCC

Sequence 105

CCGGGCAGGTACGCGGGACACATTAGAGGTGAGCCAGAGCGGGTAAAGTGGAAGTGGG  
AGAACTTCGAGGATGTTTCATGTCCAGGAGCAGCCCCACGCCCTGTATGGTCGGTGTCTA  
GAGCCTCAGCAACTAAGACCAACCCAGCTCTCANAAGAAGGAATGTCAAAATGTCATG  
TTCAATTTTACATTAGTGCCTGGAATCTTTCTTCAATTTGAAATGAAATGTGCTGAA  
GGAGGTGAATCCATGCATTAATCTTCAGCTCACAAGGAAATACTACATAAGAAGCAAGA  
CCACAGACTCAAGACGGACATAATTGGATTTTTTTGCCATGGCCTGGAAGAAAGGTAC  
CT

Sequence 106

AGGTACATTACCTACGCTCCAAGCGCAGCAAGCCGGCCAATATCCGTGGCACCGTGAAG  
CCCAAGCGCAGGAAAAAGCATGCAGTGGCATCGGCTGCCCCAGGGCAGGAGGCTTTGGTC  
GGACCATCCCTTCAGCCCGCAGGAAGCGGCAAGGGAAGCTGATGCTGTAGCACCTGGGTA  
CTGCCCCG

Sequence 107

AGGTACAAAGAAACCTTTGCAGACAGCCCATTTATAGAGAGAAGCTAAGTATTTATTTA  
CTTGCTACTCAATTTAAATACGACCATGGCAGGCAACCAACCAGGAGAAGAGCTAAAG  
TTTGAAGCACTGCCCTTTCTCTACTATAGAAGTTACAGGGTCAAGCCTTGGAATTT  
CCACAAAATAAGGCTTTGCTAAACATATTTACCTTATCAGAAAGATTGTATCTCAAAAA  
GTTACGTTTTTCTTCAGGCAAGACAAGAAAACTGCCTGTCTTAATCGACAGTACCTGCC  
CGGGCGGC

Sequence 108

CCGCGGTGGCGGCCCGCCCGGGCAGGTACGCGGGGACACATTAGAGGTGAGCCAGAGGG  
GGTAAAGTGGAAGTGGGAGAACTTCGAGGATGTTTCATGTCCAGGAGCAGCCCCACGCC  
TGTATGGTCGGTGTCTAGAGCCTACAGCAACTAAGACCAACCCAGCTCTCAGAAGAAGGA  
ATGTCAAAATGTCATGTTCAATTTTACATTAGTGCCTAGAATCTTTCTTCAATTTGA  
AATGAAATGTGCTGAAGGAGGTGAATCCATGCATTAATCTTCAGCTCACAAGGAAATAC  
TACATAAGGAGCAAGGAACACGCAAGAGATCTACAGCTCTGATCTCCAGGATAGTGAAT  
GAGGTGGTGAATGATAAGGGTATAATTTAGCCAGCTCAGTGAATAAATAATCATTGCAAA  
TGAANCAGTAGCACCAGACCAGACTCAAGACGGACCATAATTGGATTTTTTTGCCAT

Sequence 109

GCGCGTAATACGACTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCCGAGGTAC  
ATTTTACTTGCTTGATCTCTGATTCCTCTACTGGGTACCCCGCACCTCTGAGTGGCCTC  
CTCACCTGTCATGAGTCTTGACACCAGGCCCTGAGCCTTTCTCTGTGTGGTTGTCTCA  
CAGTCTCTGTGTGGGATCCAGAACTAGGCACCAAGCTCCCCACGTAGGAGGGTGCCCTC  
CCATTCCCTCTGCTGAGGCTCGAACCAGCATGTGAGGCTGCTCCCCATGTGGACACCT  
GACTCTCTTTGGGCTCTTACTCTACACTGGCTGTACTGCCCCG

Sequence 110

AAAAGGGCCTGCTTATTGTTTTGTGCTACCTANCATCCAGCCGCCCTTTAATTTTCAGG  
TTAGCATGTGTTGTGTTGGGTCAGTGGACTGGCCTTGCTGTTTCTGCTCACCTCAGGAT  
AGTTATGGAATGTTTCATGACATANACTTAGCCAATTCAATGTCTTGTCTANATTTTGA  
ATACTGAAGGAGGAACAAAGTGTAGGGACAGTTGAAGTGTTCAGTGGTAAGGGCAATG  
ATGTGGANAGTCCAAAGGTGAGGGCTGCAGCAAGACTACAGTAGTGGCAAGTGTCTAATA  
ATAGCAATGCACAATGTGACACACGAACCTTATCATCTTTCTGATGTCTGATC  
TGGACTCTGTTGCATCTGGCCTGGTCTCCAGCCTATANTTGATTCTGCAAGCTCCCTG

Sequence 111

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGGCCCGAGGTACACAGACAGCAGGTAGGTA  
AGCTGATCTGGAAGGTAGGGATAACTTGATAATGAATGGAATGTTAGGAGTCTGTGATC



Table 2

CTAGCTCTTCAACTTAAGAGTTCTGCAAACCTGGCCGGGCGCAGTGGTTCACGCCTGTAA  
TCCCAGCACTTTGGGAGGCCAAGGTGGGGGCGGTGGATCACCTGAGGTCAGGAGTTCGAG  
ACCAGCCTGGCCAATATGGCAAAACCCCGTCTGTACCTGCCCG

Sequence 112

CCGCGGTGGCGGCCGGTTCCCTTGTTCTTAAAGCAAACACAGGCACAGTATTCTGGGCAA  
ACCAGATGTTAATAGCTTGACCTCTCTGTCAAAGGAGGACTTGGTTGCTTAAGACCTTA  
AAGCTGTCAAAGTTATAGCTTCTCAGGATACTATCATCCTCACCCATTTCTTATTCTCTT  
TGCAGGGAGAGATCATCTCTCAAAAAGCTCCCATCAGAGCAACCATTCTGGGACTTTGAG  
CAGAATGCTTAAGGCAGTGGTTCTAAAATTCCACACCACCTGTTCTTCCAGTTGTGTCCT  
CTCTGAGCTGCCTCTGACGGTCACATTCATGGCCATGTGCCACAGCAGACTTGTGATAC  
TGATTTTAGTGTGTCCTTGGCCATTGGGGGAAGGGAGGAAGGAGAGAGAAGAGAAGGGG  
AGAGAAGAAGANAAATGGGAGTGGG

Sequence 113

GCGGCCCGAGGTACTTGGTGAAGTGAGATTCANACTGAGTGGGGTCCACAGCACAGGGCAC  
TGTCTTGCCTGGCTTTATCTGAGCCAGTCACACCTCTCCTGGCCACTATCTGTGGTCTAG  
CCCCCTTTGTGCAGAAAGAGAAAGAAGAGCCTTGAGGACCAGCCTAGTCAGCCGGGGGCC  
ATTGAGACTGCCATGGAAGACTTGAAAGGTCACGTAGCTGAGACTTCTGGAGAGACCATT  
CAAGGCTTCTGGCTCTTGACAAAGATAGACCACTGGAACAATGAGAAGGAGAGAATTCTA  
CTGGTCACAGACAAGACTCTCTTGATCTGCAAATACGACTTCATCATGCTGAGTTGTGTG  
CAGCTGCAGCGGATTCTCTGAGCGCTGTCTATCGCATCTGCCTGGGGCAAGTTCACCTT  
CCCTGG

Sequence 114

CGCGTAATACGACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCA  
GGTACAGAAAAGCAGAACATGACAAAGCCATTAGAAATACCAAGCATGTCTCCTGGGACAGG  
TAAGAGGACAGTGAGCCCTTGAAAGCAAGTTGGGGGGATTGGGAATGATTTTACAGGATGG  
TCAGAGTTCGAAAGATGGGTAGGAATTCAACAGGAGTGAGAGGTAGAACAAGCTTAGC  
TGAAAGAACAGCATAGAGAAAAGACAAGTTATTGGTTACTTGAAGAAGAGTTAGTGAAGA  
GCCTCAATGCCTAGCTAGGCAGCTTTATACCTAATTTAGTGGGTGATGAGGACTACTAA  
AGGTAAGTGAAGTGGGAAGTGACATCATGATAGCTATAATGACTAGGCTGGGGCAGTGGG  
ATATCAGTCCAGTTAGCAGATCAATAATCTGGACCACTTTGAGGAAAAGCAAAGGCATCG  
TAGAGAAAAGAACCTTAATTTAGGCCTTATTTTATGTTGAAAATGGTCTGAGTTTGGTG  
G

Sequence 115

CCGAGGTACTTCCATGANTATTCAAAGAAAAACAATTTTTTCCATNTGNTTNTGANATG  
ACCACAGTGGTGTGAACCTACCTNCTGCCCCCATCCGAGTCCCAGGATCCTGGGACAGG  
GCTTATGAACACAACCACTGTAGTCAAGCTCACTTGATCCACAGCCTGGCACCCCCACTG  
TCTGGCTAGGGAGCCTCGAATGGGTCCCAAGGCCACCCTGCTCCTCAGTTACATCATCTG  
CATAAGTAGTGGTGGTTGTGAGGAATTCAGGAGCTGCAGCATAAGGGCTCGGCAGGTCCT  
AAGAGCACAGTAAATGCCAGTGATTCTTAAGAGTCTGAGCTCCATTGGAGAGGCAAGTAA  
GCTGAGGNTCAGAGACAGAAAATGACTTGCCCAAGATCACCCANCTGGGGAAGTGACAAG  
GCCAGGGTTGGAGCCCNCTGGTTGAGCTGGNTCCACAGGCCANANCNTAATTCTGCCCTT  
TCTGGAAAGAACCTCCCAACCCNG

Sequence 116

CCCTTAGCGTGGTGCAGGCCGAGGTACTACAAAGCATATCTGAAAGGAAAGATTGAGCGC  
ACCAACTATTTGCAGAAACGAGCTGCAGCCATTCAACTACAAGCTGCTTTTAGGAGACTG  
AAAGCTCATAATTTATGTAGACAAATTAGAGCTGCTTGTTATTTCAGTCATACTGGAGA  
ATGAGACAAGACAGAGTTTCGATTTTTAAACCTTAAGAAGACTATTATCAAATTTAGGCA  
CATGTAAGAAAACATCAACAACGACAGAAATATAAGAAGATGAAGAAAGCAGCTGTTATA  
ATTCAGACTCATTTCCGAGCTTATTTTTGCCATGAAAGTTCTAGCATCTTACCAGAAA

Table 2

ACACGCTCTGCTGTCATTGTGCTGCAGTCTGCATATAGAGGGATGCAAGCCAGGAAAATG  
TATATTCACATNCTCCATCTGGTATAAAGATTCAATCATATTATCGNGCTTATGTTTCTA  
AAAAGGAAT

Sequence 117

CGCCCGGGCAGGTACTTTGCTACACGGTCGGGGGCCATTGAGACTGCCATGGAAGACTTG  
AAAGGTCACGTAGCTGAGACTTCTGGAGAGACCATTCAAGGCTTCTGGCTCTTGACAAAG  
ATAGACCACTGGAACAATGAGAAGGAGAGAATTCTACTGGTCACAGACAAGACTCTCTTG  
ATCTGCAAATACGACTTCATCATGCTGAGTTGTGTGCAGCTGCAGCGGATTCTCTGAGC  
GCTGTCTATCGCATCTGCCTGGGCAAGTTACCTTCCCTGGGATGTCCCTGGACAAGAGA  
CAAGGAGAAGGCCTTAGGATCTACTGGGGGAGTCCGGAGGAGCAGTCTTCTGTCCCGC  
TGGAACCCATGGTCCACTGAAGTTCC

Sequence 118

CCGCGGTGGCGGCCCGCCGGGCAGGTACGCGGGGAGAGCGGGTAAAGTGGACTGGGGAGA  
ACTTCGGAGGATGTTTCATGTCCAGGAGCAGCCCCACGCCCTGTATGGTCGGTGTCTAGAG  
CCTCACAGCAACTAAGACCAACCCAGCTCTCAGAAGAAGGAATGTCAAATGTCATGTTT  
AATTTTACATTAGTGCCTGGAATCTTTTCTTCACAATTGAAATGAAATGTGCTGAAGGA  
GGTGAATCCATGCATTAATCTTCAGCTCACAAAGGAAATACTACATAAGAAGCAAGACCA  
CAGACTCAAGACGGACATAATTGGATTTTTTTTGGCATGGCCTGGAAAGAAAGGTACCT

Sequence 119

CCGCGGTGGCGGCCCGCCGGGCAGGTACTTTTAGAAGAGACAGGGTTTCACCATGGTGGC  
CAGGCTGGTCTCGATGTCTTGACCTCGTGATCTGCCTGCCTCGGCCTCCCAAAGTGCTGG  
GATTACAGGTGTGAGCCACCACACCCGGCCTGAATTGCACTTTTGATGGCTGAGCCAAAT  
GCTCATTTCTATTTAATATTGCACAGCCTGAACCAAAACCCGTAACATTATAAAGGAAGAG  
ATGAGAGCCATTTCAAACCTGTGAGAGAAGGGAAGACATCAAGCAAAATCTGGGGGTTTTA  
GCCAACAGACTTCAGTCCTGGGGCCTCGCGGCACAAAAAACAC

Sequence 120

CCGCGGTGGCGGCCCGCCGGGCAGGTACACACTAGCTGATAAGACACTGTTGCCATAA  
TGTCTATTTATTGGATCAGCAATTTATAAGTCCCACATTCTCATGCCACATAGCTCTACA  
CAGCTGCAAAATATACCATAGCTTGCAGGTGATCATTGGTTTGATAAAAGATATTGAGT  
CGCTCATCTTGTGAAAGTGATCTTTGATATAAGAGGAGCATCAGCGGGGAAGCTCACATG  
TCCCGTGGCTCACACACCAGAAGGTATTTGTGTCTTGTATTGTCTGTCTGGCAGTCCAT  
GGCAATGGCTTTTTTCAAGAGAGGCCTGTTTTGTGGTTAACTGTGTGTACCTCGGC

Sequence 121

CCGCGGTGGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTGTGACAATGC  
CAATATTTCAAGAGCCTGTAATAAAGGCTCTCAGCATAAATGGTCTACTATCTAACCCA  
CCAGAACCCTTTTGGCATCTTTTGCATCTGGATACTTTTGCTCTATGCATGAGTGGGATG  
TATGGTCATTCTTTTATGCAATCATGTAGTAGGCAAAACAATGGCTCCCTCAAAGATGT  
CCACATCTTAATCCCAAGAATCTGTGATTATGTTAGTTTATATTGCAAAGGAGAATTAAG  
GCTGCAGATTGAATTAAGGTTGCTAATCAGCTTGCTTTTAAATATGGAGAGCATCCTGGA  
TTATCTGTGGGAGCCCAGTGAATCATGAGGCTACTTAAAGTGAAAGCGGAAGACAGAA  
NAAGAGTCAAGAGTGAAATGTGACCCCGGAAGAACTTTTCANAGGCGCAATGTTGCTGGCC  
CTGAAAAANGAGGAAGGGCTTGCTGANCCCAATAANGNANGTGGGCCTCCGGAAGAATGA  
AAAGAAGGATCACCCCAAAAGCTTCCAAAANGGAAAGGCANCCCTGGCCACACTTTTGT  
TTTACCCCAATGGAGAACCTCAGTAGGAACGGTTCAAAAATCCTAAAAAAGNNAAAATG  
NGTATTTNAAATGGNNGNNNNTNTTNNCCCCCCCCCCCC

Sequence 122

AGAATTGGAGCTCCACNCGCGGTGGCGGCCGANGTACATGTCATTTTTTGGTGGTAGCCA  
GTAGGATGGTATTACAGTAGGGAAAAATCCAACATTTTGTAAACCATTCCTTTCAT  
GGGTTGCCATTTGCAGACTCTGCCTGCATGTGTCAAGGCNACCTTTGGCCCTTTTAAAAA

Table 2

TCATACAGTATGTCAAGGAATATAATTCNTTAAAATTATTCTCATCCCCCATTTTGGAA  
GGAAGNTTTTNGGGGNTTTNNNNNNNAAAAAATTTTCCANCCCCCCTAAATNGTTNAAA  
AANCNTGGNAACCTNGCCCTNAACCCGGGGTTTAAAAAANCNAAAAANNTNNNNNNNN  
NTTNTTCCAAAGGGCCACCCCCCAAANAAANTTTNCCNNNTTTTTCNTTAAANANNNN  
NNAAAAACCCCCNNNNNGAAAAANTTAAAAATCCCTNAAAAACCCCNCCNNANAAAAAN  
NTTTTTNNNNNNNNNNNNNNNNNNNNNNNNNNCCCNAGAAAAAANNNCCCCNTTTT  
TTTNCNNNNNNNNNNNNNGGGGGGGGGGNNNCCCACAAAAAANCCCCCNNTT  
TTTTTTTTT

## Sequence 123

AGGTACAGTATTGTTGACTGGCTAACAGAGGACCAATTAATAAGCCAAAGAAACGGCTCT  
TTAACAATGAACATTTCTGCCATCAACTGACAGATCCCAGGAATAAATGTTTTCCAGTGA  
GGAGACTTCTCTGGTTTTCAGAACACCTCTGGCTGCCCTGCCACCCCATAGAAGGGCT  
ATCCCTCCAGGTACAGTTAGCATCATCACCTAGAGCCAACAAGTCAAGGAGGTGATGGTT  
TGCCCTTGACATCTCTACCCAGACCAGACTCCACTGAGAAGACTCTCCCTTTTTCATCAC  
TGCCCTACCTAGTTAGTTGGTCTGCCCTGGGECAGAGTTTCACTAGGGGCTGAATAGT  
ATACTGTTAGCTCAGGCAACAGATGAACCTCTGCCCTCCATGCGCAAATACAAAAGCTATC  
TCTGCTTCTTTTCACTCACTTAAGATTTTGAAGAATGGCTCCTAAAGCGGGTGATCAT  
CTGCCCTCACGACTTACAGTGCCTCAGCATCACATGCTATTCATTTTGCACAGCAAAACC

## Sequence 124

CCGCGGTGGCGCCCGAGGTACTTGGTGAAGTGAGATTCAGACTGAGTGGGGTCACAGCA  
CAGGGCACTGTCTTGCTTATCTGAGCCAGTCACACCTCTCCTGGCCACTATCTG  
TGGTCTAGCCCCCTTTGTGCAGAAAGAGAAAGAGCCCTTGAGGACCAGCCTAGTCAGC  
CGGGGGCCATTGAGACTGCCATGGAAGACTTGAAAGGTCACGTAGCTGAGACTTCTGGAG  
AGACCATTCAAGGCTTCTGGCTCTTGACAAAGATAGACCACTGGAACAATGAGAAGGAGA  
GAATTCTACTGGTCACAGACAAGACTCTCTTGATCTGCAAATACGACTTCATCATGCTGA  
GTTGTGTGCAGCTGCAGCGGATTCCTCTGAGCGCTGTCTATCGCATCTGCCTGGGCAAGT  
TCACCTTCCCTGGGATGTCCCTGGACAAGAGACAAGGAGAAGGCCTTAAGGATCT

## Sequence 125

CCGCGGTGGCGCCCGCCGGGCAGGTACCTCTGTGTGGCAGGCGATCAATGGTGTCTAT  
CTCAGCCAGGGACTCAGGTGCGAGACTGAGAAGCCCAGGAGGCAAGAGGCACCTGCAGCT  
CTAGAGCCCACTGCAGATTTTCTTGAGGGCCGTATATCCAGAACCATCCCAGGGCTTGG  
CTTTTGAGAGAAAAATGTAGTCTTAAAGAATGAACAAGTGGGCCGGCGCCGTGGCTCACG  
CCTGTAATCCAGCACTTTGGGAGGTACGAGGTGAGAAGATGGAGACCCTCTGGCCAA  
CACAGTGAAGCCCCGTCTCTACTAAAAA/AAAAAAAAAAAAAAAAAAGTACCT

## Sequence 126

AGGTACTCACTNANATNANATNAGGNANNTACATTAGANNTGNGGTNCNCCNNCTTNA  
NTANTGCNTTNTNTNCCATATANNTGTNTAACAANCTNCCACCAGACACCGATGGNGANG  
AGCCTCATAGCAGATGTGGCAGTGGCGGTCACTTCCCATGACCCGCGTACCTGCCCC

## Sequence 127

CCGCGGTGGCGCCCGAGGTACAGTGAGGGTGTTTCAAGGGAGGCAAAAGAATAGCTCTG  
AGATTAGGCAATGGAAATGACAAAA/AGAGATGAATAAATCCGATTTGAATACCAACAAT  
TTGCTCTTCAAACCTCCTGTAGAGA/CCCATATACAAAAGAATAAGAAAAATCTTAAATCT  
GCAAAAGATTTGCCTCCTGATGCACTTATCATTGAATACAGAGGGAAGTTTATGCTGAGA  
GAACAGTTTGAAGCAAATGGGTATTTCTTTAAAGACCATACCCTTTTGTGTTATTCTAC  
TCTAAATTTTATGGGCTAGAAATGTGTGTTGATGCAAGGACTTTTGGGAATGAGGCTCGA  
TTCATCAGGCGGTCTGTACCTGCCCC

## Sequence 128

CGCGGTGGCGCCCGCCGGGCAGGTACAACCTGACCTTCTGGGCTGGATAATTCTTGGTT

Table 2

GGGGGGACTACTCTGCACATGATAGGGTGTTCTCTGGTCTTCACCTATCAGGTGCTG  
ACAGCACCACAGCACCCCAACACCGCATTGTCAACAGACACTACCAAATGTTATCAGGGG  
AGGAGAGTGATTACCCCTCTTAAGGAACCACTGAAAATGATTTTAAAAATACCTATTAT  
TTTCATCTTTAAGGAATAATTATTGGCCAGGCTCAATGGCACATGCCTGTAATCCAGCA  
CTTTGGGAGGCTGAGGCAAGCAAATAGCTTAAGGCCAGGAGCTCAAAACCAGCCAGGACA  
ACATAATGAAACCTCGTATGTACCTCGGC

Sequence 129

ATCGACTACTATAGGGCGAATNGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACA  
AGCAAAACCCACCTGTGTAAACACACACAGCAAAGTGATGTAAGAAGTTTCCATATAAG  
GGCTGTAGTATGGGGAGGTAATGTGCAGGCTGGTTTGCGGCTGTAGGGGCCACCTTGTC  
AGCTCTCCACTGATATGGTACCT

Sequence 130

CGAGGTACACAGAGTTNCAAATTAACCCCTCCAACAGCCTCTATCAACNTCNTGCACCAN  
TGTGGTAAACCGTTACAACAAATAAACCTACNTNGACNGTCCACAGTTTACCTTAGGGTT  
CACTTTNTGGTGTTATACAGTCTATGGGTTTGATAAACAGATAATGACAGGTTTCCATG  
ATTACAGTATCATACAGAATANATTCAGTCCCTAAAAAATCTGTATGCTTCAGGAGGCC  
GAGACGGGAGAATCGCTTGAGCCCAGGAGTTCAAGACCGGCCTGGGCAACATAACGAGAC  
CCCAGCTCTACAAAAAAGTGAAACTAACAGCAAAAAAATTAGCCAGGCATGGTGCCAC  
ACACCTGTACCTGCCCG

Sequence 131

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATGGGTAAGTAAAACTCGTG  
TAAGTTTCCGCATAGTTCACACTCATGGGAAACAAAACTGCGCCTTGATATCATCATC  
CCCCGACTGTCTGCTCACTCACAGAATTCAGGCACATATGAAGTGCTCAATAAACAAGAG  
CTTAGAGGAAATCAATGAGGCTTAGTGCATAGCCTTATTGCAAAGTGCGTCTCCAATGC  
AAAAACAAATAAAAAACAAAAACCCCACTAAAAACAAAGTAGGGGATGTTAACAGAG  
AACAAAGGATATGAAACCTATCTCATGAAAGAATAAACATTTACACAGAAATCATGAATG  
TTGGTATTAATTTTAAATGACATTTGTCAGCCATAGAAAGTGATCTCTAATAACTCACGA  
TAGAGCAGTTTAAATGCCAAATAATTGAAAAAGAATTGGAGAGGTAACTAACGGCAGA  
TAAGATTAAGTAAGGAAATTTCAATCTGTGTGAAGAAAGAGAANGCTTTAATTTTCAA  
CCCTTTGGGACAATTTTGAACATCANGGCTTTTCCCCAAACTCGACTTTATTTATCCT  
ATATATATCCCTTANTTANGGATCCCTAAATTTATTTTTTC

Sequence 132

CCGGGCAGGTACGTTTAAATGGGATTGTTTGTCTTCACTTGTTGATTTTTTAAGTTCA  
CCAGATGCACTGTGCTGGGGTTCTGTGATAGTCCCTAATTGCTGTGCACCCTCCCAAGCC  
TGAGAGCAGCAGGAGGGAGGGTTGCGAGACAGCAAAAAGGTGGACTGCCTCTCTTTTG  
AAGCTGCATGCCGAGAAGTGTAGAGCTGCTCCCAGCTGGAGAACTCAGGAGGACTAGGG  
TGGCCTCACTAGCATCCCAGGCTAGTGGGCCCTATCCTACAAGGTTCAAGTGGTGGTGAGG  
TCTGCAGTCTATCACTGCTCAGCCCCATGGACTTGGCCCCCTTTCTGGGGAGCGTGCAAG  
AAACTTGGCCTTCCCAATTGCTGGAGCTGCAGCCCCTGGTTTTGGGTACCT

Sequence 133

ACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGAACTTAAACAC  
CACTATTTGTTGAGATGAAAAAAGCATATATAGGAAGCCTTCAAATGAAATGGTCAAG  
GGTGAGTTTACACAGATAGATAGATTTAGGTCTCTTCCTTTTGCTTTGTGAAAGCATCTA  
GTGTTTTAGGTGTGAGAGAGGGAGATATCCTTACAAAGCAGAGATTATCATTACAGGTTT  
ACATTTCTTACAAAGAGTTTCAAAATAAACAGGTAAATGCCAAAAACATATATTTTGGTG  
ACGGATTAATTCAGTATGGTCTATTCAACTTAACTTGTTCCTAATGAGATTAAATTC  
ATGCACAAATAACCAAAACCAAAATTAACCAAAAGAATACTCACCAGAAAGGATGTCCT  
TTACAAGAGCAGATCCCCAAATGTAAGAGTTCACTGAAAAGGTGGGAGCTCAAACCAA  
GAGAGGACTTATCTCGCAGCATAAAGACAACCTGTACCTCGGCCCGCTCTAGAATAAGT

Table 2

G

Sequence 134

AGGTACTAACAGTCAGGAACAAATAGAACACATAGAGAGGACAGTGGGAGGTCCCCCTGG  
CTAAAGCAGAGGGTGTGTTGAGAGAAGGAAACCTTTGCCTCAATGGATCGTAGGCAAAC  
GAGAAGGACCATAACACCTTGCTGAGAAGTTTGAATGTGATTCTTGGTGACCACAGCAG  
GAGGTCCTGAAGTCCCTGCTTCAGATGCAAACAAGGAGGCTGTCCATACAGACTATC  
AGGGAAAAAATGCACTGTTTATCAAAAGATATGAATGTTCTTGACAGGCAAAGCCCTGCT  
CAAATGAAATGGCAGTGCAGGGAGATGATATTCAGTGTGATGCAGCTGTGAGTACCTGCC  
CG

Sequence 135

CCGCGGTGGCGGCCCGCCGGGCAGGTACNCGGGACACATTCAGAGGTGAGCCCAGAGCGG  
GTAAAGTGGACTGGGGAGAACTTCGGAGGATGTTTCATGTCCAGGAGCAGCCCCACGCCCT  
GTATGGTCGGTGTCTAGAGCCTCACAGCAACTAAGACCAACCCAGCTCTCAGAAGAAGGA  
ATGTCAAAATGTCATGTTCAATTTTACATTCAGTGCCTGGAATCTTTCTTCACAATTGA  
AATGAAATGTGCTGAAGGAGGTGAATCCATGCATTAATCTTCAGCTCACAAAGGAAATAC  
TACATAAGAAGCAAGACCACAGACTCAAGACGGACATAATTGGATTTTTTTTGCATGGC  
CTGGAAAGAAAGGTACCT

Sequence 136

ATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACGCCTGTAGTCCCAGCTACTCT  
GGAGGCTAAGGCAGGAGAATCGCTTGAATCCGGGAGGTGGAGGTGCGAGTGAGCCGAGAT  
CGGGCCACTGCACTCCAGCCTGGGAGACAGAGCGAGACTCTGTCTCAAGAAAAAAAAAN  
NAAAAANAAAAAANTTGGGGNGNANTTTTTTTTNCNCAANANTTANGGNCNTNTNCA  
ANTTTNAGTTTTTTNTAGGGTNTCNNTTTTNTAGAAATTTTTTTNAAAAANCCCCANNTNT  
TAAACNTAATNATNTAAAAATTTTNTNTNATNAANCCNNTTTTTANTAANNGNGGAAANT  
TAAACCCCNNTTNNNTTANNNTAAAAAANTACCAAATTAATTGNGGAANNTANGGNTTNT  
AAANANGGTTTTTTGTANATNNNAAAGTGGNAAANCCAAACTGAANTTCAGGCCTCCTG  
ACTTTTATCTAGGGCTNTTTTTGCATNATTNGCCTCTGCTNTNAANAANATTTTTAAAT  
GTGCTTTAAACCATTTGGGCTTTNAAAAATNTTTTTATTTGGAATTTGCCNGACCCAAA  
ACCTNNNNNCNTTTNCTTTTTTTNNGNAAACCTGGGCCAAANCAAAAATTTTTCCNNNNA  
AAAAANNNNNNNNAAAAANCCCCCGGCNCCTTTNAAAAAANGGATTCCCCCCCCGGGCGG  
GGGNNTTTTTTTTTNAAATTTTTTNCNCCCCCCCC

Sequence 137

ANGTACTCAAGCCACCTGCCTGTCATGGCCCCCAAAATGCTGGGATTGCAGGCCACCAT  
AACCGGTATCGGGGCAACTATCCTTCAGGGCTTCTCCAGTAGGGCTCCCAGGTTGGC  
CTTGAGGGCCACAATAAAAAATCTGACTTAGCTATACTCCTTCCCTGTCCCACACCACAG  
TTATTCTTGTGGATGAGGCAAATGGCAGCAGGACAGCTGGAGTATACCAAGATTGACTCA  
TTTATTTTATGCATGCTTAGTGTGGCATCCCTGGGGACATGAAATTCAGTGAAATCCAG  
TCTTTGTGCTGGAGAAGCTCATAGATCTGTGGAGGAGGCAGATGCCACCCACTCACTGT  
ACCTGCCCCG

Sequence 138

CCGCGGTGGCGGCCCGAGGTACTTTTTTTTTTTTTTTTCCCAGAAAAGGTTTCCAATA  
GAGATTGGAATGGTTTTCCAATAGAGATCTTCTGGGTCCAATGATGATGTAATACTAAT  
GCTTGTTAATACTTTACAAAATTGCTCTCTAAAGCTCTTGTCTATCTGAAATACCC  
AATTAATGACAGTTTGAAGTGTAAATAACCTCTACAAGGTATAAAGTATTGACTGTTA  
ATATACTTTATAAAATTGCTCTCTAAAACCTCGTTTCTATCTGAAACATCCACCAATTAAT  
GATAGTTTGATCTACAATAACCTCTATAACATATACAACTATTGGTTTTTTGTTGNTG  
TTTTTGTGTTGTTTGGAGATGGAGTCTTGCTCTGTTGTCCAGGCTAGAGTGAGTGGCA  
TGATCATGGCTCACTGCAACCTCTGCACTCCAGCCTGGGTGACAAAATGAGACCCTGTCT  
CAAGAAAAACAAACCCAAAAATTTNNACAGCAAACTCAAAA

Table 2

## Sequence 139

CCGCGGTGGCGGCCGCCCGGGCAGGTACCTGAAGTCCCAGCTACTCAGGAGGTTGAGGCA  
GGGGGATCCCTTGGGACCAGGAGTTTGAGGTTACAGTGAGCTACAATAGCACCCTGCAC  
TCCAGCCTGGGCAACACAGCAAGATCCTGTCTCCTTTTAATGAAAAAAAAAGAGGGGAGG  
GGGGCAGAGGAGACAATAGGTATTTGCCAGAAGAATTACTAAACCACCAGTAAATATGAA  
ATTATGCACAACCTCAGTGGCAATTAATGCAAAATTAGAAAGACAACTTTAGGCCTAT  
AAGATTCATAATGATGTTTTTAAAAAACTTATTGAAAAAGGTATAGGAAAACATGTTCT  
GTATTTTCATCTCTTACTATGTTTTCTTACATATTAATAATAATCCCCCACTTCCTATCC  
TTAGGAAATATCAACTCTTCCACCTTTATTGGGAACTCTAGCATCTCTACTGTAGTCTTT  
TCTACTCCCCAACTCATACCATAATCAGGGGCATTCTCGACGTACCT

## Sequence 140

GATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGTAAGTGAAGAATTAAGGCCAAAAAT  
TTAAGACTGGAATCAATGGAGAATAGAAAAAGTTTTAGCTGGCAAGTGAATATGCTTCAG  
ATAAATCAACTAAGATAGACTGAAATAAGCCAGGGGTAAAGTAGTTCTTACTAGAAATAG  
AAATGCCAGCCGGGCGCCGCGGCTCACGCCTGTAATCCAGCACTTTGGGAAGCCAAGGC  
GGGTGGATCACGAGGTCAGGAGATTGAGACCACGGTGAAACCCCGTCTCTACTAAAAATA  
CAAAAAATTAGCCGGGCATTGGTGGTGGGCGCCTGTAGTCCCAGCTACTCGGGAGGCGGA  
GGCAGGAGAATGGTGTGAACCTGGGAGGCGGAGCTTGCAAGTGAGCCGAGATTGTCCACT  
GCACTCCAGCCTGGGTAACAGAGCGGAGACTCCGTCTCAAAAAAAAAAAAAAAAAAANTTTT  
NAAAAANNTTTTNNNGGGGGGGGCGNTTTAAAAANANGGGTCCCCCGGNNGGGGGG  
AATTNNNTTAAACNTTTTCCCCCNCCCCCNNG

## Sequence 141

CGAGGTACAAGTTGTCTTTATGCTGCGAGATAAGTCCTCTCTTGGTTTGAGCTCCACCT  
TTTCAGTGAACCTTACATTTTGGGGGATCTGCTCTTGTAAGGACATCCTTCTGGTGA  
GTATCTTT

## Sequence 142

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGAACTTAACACCACTATTTGTTGAGA  
TGAAAAAAGCATATATAGGAAGCCTTCAAAATGAAATGGTCAAGGGTGAGTTACACAG  
ATAGATAGATTTAGGTCTCTTCTTTTGTGTTGTGAAAGCATCTAGTGTGTTAGGTGTGAG  
AGAGGGAGATATCCTTACAAAGCAGAGATTATCATTACAGGTTTACATTTCTTACAAAGA  
GTTTCAAAATAAACAGGTAAATGCCAAAAACATATTTTGGAGACGGATTAATCACTA  
GTTGGTCTATTCAACTTAACCTGTTTCTTAATGAGATTAAATTCATGCNCAATAACCAA  
ACCAAAATTAACCAAAAGAATACTCCCAGAAAGGATGTCTTTACAAGAGCAGATCCC  
CCAAATGTAAGAGTTCACTGAAAAGGTGGGAGCTCAAACCAAGAGAGGACTTATCTCGC  
NNCATAAAACAACCTTGTCCTCGCCGCTCTAAAACTANTGGAT

## Sequence 143

GCTCCCCGCGGTGGCGGCCGAGGTACCTCAATGGTTTGAATGCAGAAAGTGAATTA  
TTTGAAGCTGAAAAGGAAGGCACCTTGGAGAGTCTGGCTCTTATTAGCTTTCANGCTAG  
GGACAAACAGATGCCACAGACCATTTGAGGGCTGTTTGTGGATGATGCTAATTGTTTAC  
TGTGCTTATTATTCTGTGACATCCTTAGAATCACCCAGGTGGGGAGATGTCAGACTAAAG  
TTACCAATATCTGTGCTAAGAAAACTCAACACTTCTATAGTTTAAGTCCATTTTGGTCA  
AAGCAGAAGGATTCAAAGCCATTCTGAGGTTTATGAACAAGATTAAGAAAGCACCTGGCA  
CTGATTTTAGCTTGTAAGAGTGAACCCCTCAGAAATTTTTCAGATTATTTACATACNCT  
AGAAAAATATATAGAGAAAGGTGTTTACNAAGAAGAAATNATATCAAAACCAAGTACA  
TTATTCAAAGGTCTATTTCAAATTAATAATCATTTGAGCATAATTTCTCCCTGTCAAAA  
CCACTGGTATTTTATTTT

## Sequence 144

CTCCCCGCGGTGGCGGCCGAGGTACTATGTCCCTCTCAAGTCCTGAATCTAACTTAGGGA  
GTAGCCAGGAGACTATGAGAAGGAACACTCCAGGGAAAGAACATCCCATGCCCTTTCTG

Table 2

AAACACAAGTGGCAACCATAAGACACCACTCTTTATCCTACCTTTTAGCAGACTATGCAC  
AGTCCCAGGAACGAGGCCAGAACTGATAAGCAAGTGTGGCATTGGCTCCAGCCAAGGTTA  
TGGGATTTCGGGAACCTCCCCATCCTGGAATTGGGCTGGGAGGGGTTTCACCTGGGAGCCA  
CAGTTTTATGGCCTGGGGTTATATTGCAGTCCAAAGACAACTGCTTGTGATT

Sequence 145

TTTGTTTTTTTGAGACAGAGTCTCGTTCTGTCACCCAGACTGGAGTGCAGTGGTGCGATC  
TCGGCTCACTGCACTCCAGGCTGGGCAACGGTGTGAGACCTGGACTCAAAACACACACAC  
ACACACACACACACACACACACACACNAAGCGGGAAAAATTTCTGGTGCTTCGCAAAGTCA  
TCACAATACAAATCAAAATAAAATTTGTCTTAAAGCCACTTAGACAATACTAACCACCTTT  
CACCAGGTGTTATCCATGCACAACCAAAACCTTTTACTGTGAGAGCGAAGCTCTTATGGA  
GTTCTACCTCATCAGTGNTCTACCATTNTAAGATATNAAAGACTAGTNGATTCTATTCTAT  
GAAACCATTTTTCTTGGCTTG

Sequence 146

GCGAATNGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTAATAATTTCTAGGAGCAA  
AGTTCTAGGGGCTGTGTGTCAGGCCAGCTGAGTGAGAGGGTGGTGTGAGGAGGCACAGGCAG  
GTCCTTACTAATCACACAGCATCAGAGCTGCCAAGTCTGAGTGTGACAGCCTTTCTGGG  
CACACCTTCTGAACTCACTCTGAAGGGAGGGAGGCTATTAGGAAAGAAATATAAGCTGA  
AAATGCCCCCGAAAGGTCCACTCACAGAAAACCAAGAGCTGGCCGCCACCCTGCCAGCAG  
TGGTGACGGGAATCATGCCAGTGACTCANGCANACAGCCACAGCTTCCAAAGTCTGGAGC  
CGGCCCCGCCCCAACACACCGGATGCCACAAAGCACCACCTACCTGAGCATACTGTTCCCT  
GAGTGGACCAGAGAGCCGGAGGACAGCACAGACATCAGCTCCAAGTCTGCTCTTGCANCG  
CCTTCGGTCACGAAAGTCTTTCCCGGATTTCTCTTGCCCCGCTGAACAAGCAAGTACCC  
TCGGCCCCGCTCTTAGAAGTAAAGTGGATC

Sequence 147

CCGCGGTGGCGGCCCGAGGTACACGCCTGTAGTCTTAGCTACTCAGGAGGCTGAGGCAGG  
AGGATGGCTTGAGCTGAGGAGGCAGAGGCTGCAGTGAGCCAACATTGCAACACTGCACCC  
CAGCCTGGGCATTAGAGCCAGACCTAGTCTCAAAAAATAAATAAAATAAAATAAAATAAA  
ATAAAATGTTAATAATGCCTACTCAGACAAAGAAAGGCTCAGGCAAAAGACTGAGTCTG  
ATCTTCTACATTGAGGAGACCATGTTGATTAGTGTATATTCAAAAAACCAATTCCCAA  
GTAATGCATACACAGCTTGAAAGAAAGGAAGTATCCAGCTACACCCTCCAAGTTTTCTA  
CATCTCAGTAAACGGCATCGCCACCCACCTAGAACTGGGCATCATTGGTTCTCGTTC  
TCCTTTTTTTTTT

Sequence 148

CGCGGTGGCGGCCCGAGGTACTTTACTCACCTTCTCTGACAGAAAAGGATGAAGTCAAG  
GGCCTGGTAGAGGCACCACTAAGAAAGGCATCTGAAAGGACCAAAGAGAGTGACCAGCAA  
GCATTTTTTACAAGGCTGAGGAGCTGACAGCTTCCATGAAAGGCTGGACCACCCAGTGGT  
GAAAAGCATCATCTGGGTTACCTTGTGCTGCCATAAAACACACCACAGACTTGGTGACTT  
AAACCACAGATATTTATCTTCTACAATCCTGGAGGCTGGAAAGTCTGCAATCACGGTGC  
CAGCATGGTCAGGTTCTGGTGAGGGCCTTTTCTTCTCACTGTGTGCTCTTTCTTTGTG  
CATGGAGAGAGAGAGCATGAACAAGCCCTCTACTGTCCCTCTTAAGAANGGCACTTANTC  
CCATAATAAGGCATTACCCCTTCTGACCTTGGCTAACCCCTAAGTTNAAAGTNCCTTGCCCC  
GGG

Sequence 149

CCGGGCAGGTACGCGGNGAGACTGANTGGGGTCACAGCACANGGCACTGTCTTGCCTGGC  
TTTATCTGAGCCAATCACACCTNTCCTGGCCACTATCTGTGGTCTAGCCCCCTTTGTGCA  
TAAAGAGAAAGAAGAGCCTTGAGGACCAGCCTAGTCAGGCTGAAGAAATGTCAACAATTG  
GGAGTTTTGAAGGATTCCAGGCTGTGTCTCTGAAGCAAGAGGGAGATGACCAACCCTCTG  
AGACTGACCACCTATCGATGGAGGAAGAGGACCCGATGCCAAGACAGATTTCAAGGCANT  
CAAAGTGTGACCNAATCAACTCTTACCCCAATCCTTATCATCAAGCCTTATATCTCAGG

Table 2

GAAGTACTTTGCTACA

Sequence 150

CTGCCCCGCGGTGGCGGCCCGAGGTACTTTTTTTTTTTTTTTTTGTGATGGGGTCTTGCTC  
TGTCGCCCAAGGCTGGAGTGCAAGTGGTGGCAGTCTCGGCTCACTGCAAGCTCTGCCTCTGG  
GTTACACACCATTCCTGCTCAGCCTCCTGAGTAGCTGGGACTACAGGTGCCCAACCA  
TACCAGGCTATTTTTTTTTTTGTATTTTAGTAGAGACGGAGTTTACCCTGTTGGCCA  
GGATGGTCTTGATCTCCTGACCTCGTGATCCGCCACCTCGTCCTCCCAAAGTGCTGGAAT  
TGAGGCGTAAGCCACCGTGCCCGGCCAGAAAGCACCATTTTTTATATACCTTTAAAAA  
AGAAAAATATTGCTAACTAAATTAAGACATGTCTTCTGTTGTAAGACATATTCTGGTTA  
AGATATGTTAAATGGAAAAAAACAAACAACTCAAAACCCATGTACCTGCCCGGGCGGG  
CCGCTTTANAAC TAG

Sequence 151

CGGGGGCCATTGAGACTGCCATGGAAGACTTGAAAGGTCACGTAGCTGAGACTTCTGGAG  
AGACCATTCAAGGCTTCTGGCTCTTGACAAAGATAGACCACTGGAACAATGAGAAGGAGA  
GAATTCTACTGGTCACAGACAAGACTCTTGTATCTGCAAATACGACTTCATCATGCTGA  
GTTGTGTGCAGCTGCAGCGGATTCTCTGAGCGCTGTCTATCGCATCTGCCTGGGCAAGT  
TCACCTTCTGGGATGTCCCTGGACAAGAGACAAGGAGAAGGCCCTTAGGATCTACTGGGG  
GAGNCCNGANGAGCAAGTCTTCTGTCCCGCTGGAACCCATGGTCCACTGAAAGTTCTT  
TATGCTACTTTCACTGAGCATCCTATGAAATACACCAGTGAGAAATTCCTTGAAATTTGC

Sequence 152

CCGCGGTGGCGGCNCGAGGTACCACCACCTATCCACACTCTCACACAATCACCCCTTTTG  
AAGTAAAGCCTATATTTTAAAAATAACCATTACAGATTGTGAGTGCAAGTCTAGGATCACA  
TAGCAGAACTAAAAGCTAACTGGCCCAACCAAGTAAATGTGAGACAGAGGGCTCGGG  
GTAGCCATACTCTAGCCAAGTAGTACCTGCCCCG

Sequence 153

CGAGGTACTTTTGGAGTATAAGAGAGTCAGTGTTTTCTAAAACAGTTGTTCTTAGAGAAT  
AATAATGATATCTACCATTACTGAAAGATATTTTATTTACCCTAACCATAACTATATGA  
GGTAGGTGTTGGGTTCTCTAGAGGACCAAATAAGTGACAACCTCATTTTCTACCTGAGAT  
CTGAATCCATGGAAATCTTTTTTAAAAGATTAAAAGATTGAGAGATTAAAAGACTGCTTT  
ATAAATGATGTTAAAAGAATGTAGCTTTTTATTTGTTGGCAAATGCACTTCCTAACCCCTG  
AACTTCCCCTCCCAGTCACAGACAATGTTGGGCCAAGGTAGACCTCCTTCACAGAAAATC  
CTGCTCTTGCCAAACAAGAGTATTGGAATAACAGAGTGAACCTGTGCTTCCTATGAGCAGT  
TTGCTCCAAGTGTAATTTGGAAGGGCAGAGCTACACATCCCTAGTTCCTTATTCTCATCA  
AAAGAATCACTATGCATGAGAGGATAGAGAGTTGCTACAAGTATTTTGTGCTGGAAGTC  
CCTTT

Sequence 154

CCGCGGTGGCGGCCCGGGGGCCATTGAGACTGCCATGGAAGACTTGAAAGGTCACGTAGCT  
GAGACTTCTGGAGAGACCATTCAAGGCTTCTGGCTCTTGACAAAGATAGACCACTGGAAC  
AATGAGAAGGAGAGAATTCTACTGGTCACAGACAAGACTCTTGTATCTGCAAATACGAC  
TTCATCATGCTGAGTTGTGTGCAGCTGCAGCGGATTCTCTGAGCGCTGTCTATCGCATC  
TGCTGGGCAAGTTCACCTTCCCTGGGATGTCCCTGGACAAGAGACAAGGAGAAGGCCCTT  
AGGATCTACTGGGGGAGTCCGGAGGAGCAGTCTCTTCTGTCCCGCTGGAACCCATGGTCC  
ACTGAAGTTCCTTATGCTACTTTCACTGAGCATCCTATGAAATACACCAGTGAGAAATTC  
C

Sequence 155

GCGGCCGANGTACCTGGAATTCAGGTTACAGTTTTCTTTTCAGGGCAGGGTGCCCTCC  
CATCTAACCTCTCTACCCAGTCTCCCCAAACAAGCTGAAGGCACTTACATTGGCATGTT  
GCTAGGCATAAGGTTACTGCAAGCAGCAACAAAGTCCGCGTATCCACAAAGCTGAGCATG



Table 2

TCTAGCACTTAGACATGCAGACTCCTTGTCGCAAAGCCTCTGGGTACCGGCGGAGGT  
ATCACCTGGCGGGCGCGGGCATGCAGTCGTGGCCAGTACCTGCCCCG

Sequence 156

CGAGGTACCAGGCTAGCCTTCCTGATGACTGCAGCAGCAAGGCTGCCCATGGGGCACCCC  
AGACAGCCTGCTTAGAATCTCTAGAAGAGCTGCTTGATGTAAGACATTAAGACATTCTTA  
AACGAAGCCAGTCTTCAAGGACTAGAATAAATCCTTAATTCTTCCAATACATAGACATTA  
ACGTAAGCAACAAGAAACAAGGAAAGTCAAATAGACATAGCACTCCCCAAAGCATATAA  
TAATCTCTAAGTTGATCCAAAGATACAACTGCCTGACAAATAATTCAAATAGCTCATT  
AAAAAATGCTCACTAACTTCCATAGGATACAGGGAAACAATTCAATGGAATCAGGAAAA  
CCAATAAATTACCAAAAAGAGGATATTTACCAAAATTACCAAAATTACCAAAATTACAAAT  
TACCAAAAAGGAGATATTTAACAGACAGATTGAAATTTTAAACCAACCAACCAACAACA  
NCNACAACAAAATCAAACAAGAATTTCTGGGGCGAGAAAAATTAGAGGTGGAACGGAAAT  
AAAAACCCACCCGNGAAAAATATCAAGTTACCAGAATTGGATCAAGTTGGAAAAAGATT  
TTTTCCATGAATTTGGAAGACAAGTTATTTGAAAAATNTACCCGTCNGGAAGAGGAAAAA  
ATTNAACCANATTTAAAGGGGANTTAGGAAATTTATTTTTAGAAATTTTAAAGGACTT  
TTGGGAAAA

Sequence 157

ATTGGAGCTCCCCGCGGTGGCGGCCCCGAGGTACAAGAAGGGCTGAGGCTTCTGTCTGAGT  
TGACCGTGACCTGTGGTTACAGCATTTTAGGACTTCGTAACAGAATGATCCACAGAGGTC  
AGCAGGCCCTTGAAAGAACGCTGAAGGAACTTGCAATAAACAGTCTCAAGGAGGCAAA  
CACATGCTTCAAGCGCTGCCCGCTACCTGCCCCG

Sequence 158

GCGGCCCCGAGGTACACCTGTAATGGCTACCCCGCTGGCTCAGAGCTCTGCCTCACCGCCC  
TGCCCCGGCACCTGCAAGCCAGTGTGCCACTTTTTGATGTTGATGTTTTAATATTCC  
CTGAGACAGACTCCAGAGTTCTGAGTTTTCTACTTGGGGTGTCAAATTATATTCCAGGA  
ACCAATTTGGGTTTTCTGGCTTCTGGTTAAAAAGCTGGACAGATTTTGAGTTGTTTGCT  
CTTAGTTCTCTCATAAACTGCACTATTTTTAGGGCACTATTTTGTAGAACACAAGATTTT  
TCAGGAAGTATATTGAAAGGCCTGTACCTGCCCCG

Sequence 159

GGTGGCNGCCCCCGGGCAGGTAATTGGTGAAGTGAGATTCAGACTGAGTGGGGTCACA  
GCACAGGGCAGTCTTGCCTGGCTTTATCTGAGCCAGTCACACCTCTCCTGGCCACTAT  
CTGTGGTCTAGCCCCCTTTGTGCAGAAAGAGAAAGAGCCTTGAGGACCAGCCTAGTC  
AGGCTGAAGAAATGTCAACAATTGGGAGTTTTGAAGGATTCCAGGCTGTGTCTCTGAAGC  
AAGAGGGAGATGACCAACCCCTCTGAGACTGACCACCTATCGATGGAGGAAGAGGACCTGA  
TGCCAAAGACAGATTTCAAAGGCAGTCAGAGTGTGACCCGAATCAAACCTTTTTTACCCA  
AATCCCTTATCAATCGGCCTTATATTTTAC

Sequence 160

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCCGGCGGCGAGGTACGGAAGAACA  
TGGGAGTCTGTATGCAGCAGCAGCTTTGTTCAAGTTACCTCACTACTAAGGAGCACCTTC  
TCCTATATGGTTCCATCAAAGTTCCTCACTGGACTAAAAAGCAGCTCCACGAGGAAGTAA  
AAAGGACTTTAAAGATACTGGACTATATAGCCATCGTCATAAGAGAGTTGGAACACTGT  
CAGGAGGCATGAAGAGGAAGTTATCTATATCCATAGCTCTCATTGGTGGATCAAGGGTAG  
TAATTTTGGATGAACCATCTACTGGAGTTGACCCATGTTCTCGCCGAAGTATATGGGATG  
TTATATCCAAGAACAACAACTGCCAGAACAATCATTCTGTCAACGCACCACTTGGACGAGG  
CTGAAGTGCTGAGTGACCGCATCGCCTTCTGGAACAGGGGTGGGGCTTANGTGCTGTGG  
GGTCCCCCATTTTACCTCAAGGAAGCCTTTGGCGATGGGTATCACCTTACGCTTACCAAG  
AAGNAAGAGTCCAAATTTAAATGCAATGCNNTATTGTGACACCATGGCCGNGACAGCA  
ATTGATCCCAATNACATNTTCCCNAAANCCTTACCTTAANGGGNGGATATTTGGGGGGG  
ANAGCTTGGTTTATTGTNCCTTTGNNCCGCTTTANAACAAAGGGGANCCCCCGGGCTGGA

Table 2

NGGAATTTTCNATTTNTAANCTTTTNNGGATNCCGGCGNACTTGGGGGGGG

Sequence 161

CGAGGTACATTTGGCTGATACTGCAAAAATGACGGTCCCTGGGTTAACGGGAGGCATGTC  
TGGCTGCTAGGTCATCCCGAGAGGCAGATTGGGGCAGGTTTCTAGGAAGTATAGGCTCGC  
CTTGCGGAGGACCAGGTTGGCAGAGTTTGACTGCTGTGCACTAAGGCAGGGCACAGAGCT  
GATGCCCTCAAGGTCAATTCCAGCCACATTTCTCTGTGATTCTATGACTCAAAAGCTTGG  
AAACAACCTCAAAGGATTAATAAATGGGGGAACAAAGTATTTGCTCTCCTCTATTAAGC  
CTTGCTGGGAAGTCTTTCTCCACACTCCTCACATGCAAAATGCTGTTTGTGGGAGCAG  
ATTAACATTTCAAACCACTTCCTGCAATTAGACGGGAACACCTGGTTTTGCAATACTCT  
CATTTTCTGTGTGTGCTGAGAGGTTTTT

Sequence 162

CCGCGGTGGCGGCCGAGGTACAGAAGTTAAACACCACTATTTGTTGAGATGAAAAAAG  
CATATATAGGAAGCCTTCAAAATGAAATGGTCAAGGGTGAGTTTACACAGATAGATAGAT  
TTAGGTCTCTTCCTTTTGTGAAAGCATCTAGTGTTTAGGTGTCAGAGAGGGAGAT  
ATCCTTACAAAGCAGAGATTATCATTACAGGTTTACATTTCTTACAAAGAGTTTCAAAAT  
AAACAGGTNAATGCCAAAAACATATATTTTGGAGACGGATTAATCACTAGTTGGTCTAT  
TCAACTTAACTNGCTTCCTAATGAGATTAAATNCATGCACAAATAACCCAGCCNNANCAT  
TAAACCAAAAGAATACTCACCAGAAAGGATGTCTTTACAAGAGCANATCCCCAAAATG  
TAAGAAGTTCCTGAAAAGGTG

Sequence 163

CCGCGGTGGCGGCCGAGGTACATACTTCTGTGTCTTGCTGTTTTCACTTACTATATCT  
TGGAGCTATTTCTATATTGCCACATTCAAAGCTTTTTAAAGCATTTTCAGGATAGCTATT  
TATAGTCAAGATGATCACAGTTTGTCTTATTACCTGTCCCCCACTGATGAACAGTC  
TGTTTGCTTCTGTTTTTTTCTGTTATTGTAATAAACATCCTTATAGTTGCATTTT  
TTATTTTTAAATTTTTTTTTATTTTTAATTTTTTTTTTAAATAGAGACAAGGTCTCACTG  
TGTTGCCAGGCTGGTCTTGAACCTCTGAGCTCAAGTGATCCTGCCTCAGCCTCCCA  
AAGTGCTAGGATTACAGACGTGAGCAACCACGACTGGTCAATAGTTGCACTTTCTAATGT  
GTGTTTGTAGGACAGTTTTTCAAGTAGTGAGGGCATGAAGGTTTATAGTTAGGTAAAAA  
TGTTTGCTAGATTGGTACCTGCCCCGGGCGGGCCGNTCTANAAGTAGTGATCCCCCGG  
GCTGGNAGGAAATTNGATAT

Sequence 164

CCGCGGTGGCGGCCGAGGTACGCGGGTATGTCTCGAGAAAAAGCCAATACAGTCTCTTT  
TGAGGACCTTGAAAATAACCTGCTAGGGATATCATACTAGGCCTCTGGGTGCCGCTGTC  
CGCCAATCCGTGGCTGGAGGGAACAAAGCAATCCACTGACGCAGCAGTCCCCGAGGCT  
TTTGAGACACACATTAGGAGAGGACTCTGCCCGCTGTCTGTCTCACAACTGCTCGAAAT  
ATCTTGGTCAGGAATCTCAGGATGTCTAGTGACCCCGAGTGAGGTGCTGCCTTTTATTCC  
TGAGCATCTTTGGAAGCAGGAAGCAGGGAGCAACGGTAGCGAGAGGTATTCGGATCTGAG  
TATCAGCAGGAAGAAGAAACAGAGGAAGAAGTCCCCCATAAGGAAGGCGTGAGGAGCGCA  
NGAAGCGCTGTTTCCCTGCCTGAGATCTTTATTCTACTAGGTC

Sequence 165

CCGCGGTGGCGGCCGAGGTACACACAGTTAACCCTAAACAGGCCTCTCTGAAAAGCCAT  
TGCCATGGACTGCCAGACAGACAATGACAAGACACAAATACCTTCTGGTGTGTGAGCCAC  
GGGACATGTGAGCTTCCCGCTGATGCTCCTTATATCAAAGATCACTTTCACAAGATGA  
GCGACTCAATATCTTTTATCAAACCAATGATCACCTGCAAGCTATGGTATATTTTGCAG  
CTGTGTAGAGCTATGTGGCATGAGAATGTGGGACTTATAAATTGCTGATCCAATAAATAG  
ACATTATGGGCAACAGTGTCTTATCAGCTAGTGTGTACCTGCCCCGGC

Sequence 166

CGAGGTACTCAAGCCACCTGCCTGTATGCCCCCAAAATGCTGGGATTGCAGGCCACC  
ATAACCGGTATCGGGGCAACTATCCTTCAGGGCTTCTCCAGTAGGGCTCCCCAGGTTG

Table 2

GCCTTGAGGGCCACAATAAAAAATCTGACTTAGCTATACTCCTTCCCTGTCCCCAACCCAC  
AGTTATTCTTGTGGATGAGGCAAATGGCAGCAGGACAGCTGGAGTATACCAGAGTTGACT  
CATTTATTTTATGCATGCTTAGTGTGGCATCCCTGGGGACATGAAATTCCAGTGAAATCC  
AAGTCTTTGTGCTGGAGAAGCTCATAGATCTGTGGAGGAGGCAGATGCCACCCACTCAC  
TGTACCTGCCCCG

Sequence 167

CCGGGCAGGTA CTCTTAAATACCCCTTAAAAAGCTAAACACCAC TTTGGCAAAAT  
TAAGGCATTAAACAATTCATGTCTTAGTGTATTTCTGTTATCATTTGCTCAGATATCAT  
AAGCTGTGGTTCATTCAATTTCTACAGCTTTGAATCTAAGGCTACAAAAGTCCCAC  
TGCTGTTAAATCCTGGAGCAGCTTTTACACAATCTACAATCCTCTTGTCTTCAGGTTA  
CCGAGAGCCTATGAAAAGCCTGAAAAAGCCCCAAGGGAGTGCCACTGAACAACCTTTCCG  
CAGAAGTGGGATTTTGTCTGAATATATCAGCCAATCGATAGCATNCACAGAGCAGTCAGG  
GAAGTCTTTGAAACTTGNCTGAATTTACACACAAGATCAGACCCACCGGCTGTTTGGGCT  
TAATGAGACCTTAGAGATCACCTAGTCTGGGGTTTTTCATTCTCCATATGAAA

Sequence 168

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTA CTACATGCTGAGGGTAA  
GAGGCAGAAATTTCTTTTGTCTGTAAGTAACAGGATCTTTCCAGAGCCTGGGTCTGAAGA  
CCCCAGGTGTAGATGGAACCTTCAGTTATGACTGGATCCGTGAGTTCAAAGGATGCCACTC  
CCGCGTACCTGCCCCG

Sequence 169

CTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTA CTAGGA  
CTATGGAGAAACAATGGAAGACATTAATCTGCTTGTCTTGATGGTAAGGTGGGGATGA  
AAATACAGATCGAATTTGGGGGAGCATGTTAAGGTTAGGGGAATAGAGATAGCTTATATT  
TAGAACAAGTTAGTAGAGACTGTATGATTTTCCAAATAGAGAAGGGTAAAAAGACATTCC  
ATAGAGGAAGAAAATTACATGCAAAACCACAGAGACCTTAGTTTATAAAGAGTAACTGGG  
TATGGCCGGGTGCGGTGGCTCACGCCTGTAATCCCNGGCCTTTGAGAGGCTTGANGAGG  
GTTGATCATTGANGTCAGGAGATCGAGACCATCCTTGGCTNACACGGTGAAACCCCGTCT  
TTACCTAAAAA

Sequence 170

CCGGGCAGGTACGCGGGGGGACTTACAAGATGGATAGGACCTGGTGGCAGCTGTCCTTGA  
GGAAGCCAGAGCCTGGAGAGACAGATCTCATGTTATAGCAGAGTACCT

Sequence 171

CCGCGGTGGCGGCCGCCCGGGCAGGTA CTCTTGGCATCACATGGTTTGGTTCTGGCAC  
AGCCAAGCCTAGAACCCAACCTTCTACTGCCTGCTGTGTTTCTTCACCACCCAGTTGCT  
CCTTGGCAAGTGAACCAATTCAAAGGCTGTCTTACTTGTCCAAGGACAGAGAGAAAGGTG  
CATCCTGGGTGACTGGAAATGGGAGTGGGAGGGAGAGGATGGAGGCAGCAGACATTGAAA  
GTAAGTATTGACTAGACTTGGTGACAGAATGGCTCAACTCGGCTCAATGAAAAAAGGGAG  
TCCAAAAGCCAAACTTTCAACCCTGGTGGGATGGCTATACAGTTAAAGTAAAGTAAATC  
AGTAGAATGGTGTTGGTTTTTTTGTCTCATGATGAATTTAAAGGGACTGCCTTATNCAGA  
TAGAAATATGTTAAAGATATAGGTAGGAGAGGTAGCTCCATTAAAGATCAAGATTTTGAG  
ATTAATGCCACAANAAGGAGAGCTTGAACCTTGTACCTNGGCCCGTCTAAACTAATGG  
ATC

Sequence 172

GCGAATTGGA GCTCCCCGCGGTGGCGGCCCGAGGTACGCGGGGACATTGTAGTGGGTGTGA  
TGGAACAGGCTCTCAGCTGTGCATTGGGGTGCTTTAAATTCATCAAGGAACCTCATCTT  
TTGGAGTAAGATACTGTGTCTCCGGGAGGCCTTTGCTGGAAAGAAAAATACATTNGCTGTG  
AAAGTNCATAAAGACAATGAATCCTTAAC TAANGTTAATAACAGAGTGGGAGCANGTTCT  
GGCCATGTGT CAGGCGATCATAAGCANCAATTCTGAACGGCTTCCCGATATCAACATCTA  
CCANCTGAAGGTGCTCGACTGCGCCATGGATGCCTGCATCAACCTCGGCCTGTTGGAGGA

Table 2

AGCCTTGTTCTATGGTNCCTGCCCCG

Sequence 173

CCACCGCGGTGGCGGCCCGCCCGGGCAGGTACTTACTTTGATTCTCTAGTGCAAGATTA  
TAGTGGGGTTATACCTGAGACTTCAATAAATGTTTGACTAACTAACTAAATAGCTTAG  
GGTAAGGACTACTTCCCCAAACGCCCTTTTAAACATGTGAGAAAGGAATCTCCCTGACA  
TACTGGTATGGCCATTTGTAGCAATATACTGAGAGTGACTTGGGTGATTTCTGGGGTGA  
TCAACCACATTCCATGAGCAGGTTAACTGTGGAAGACACCTGCCCTTGAGCATCGCGTTT  
GGGCCGCATGCGTCAATGGGGAATTTGTGTTTCCATTCTGCTTCTTGNTTGCCTTCAC  
AACTTCAAGGGATAGAAGCGTATTCCATTTTTAGTTAATAATCAAGCTCTCTGGGGCTTC  
CATGTAATGAGTCAAGANACTGATGACTGACTCCACTCTGCTCATTATCATGTCTCCCAA  
AAACAACC

Sequence 174

AGGTACACACAGTTAACCACAAAACAGGCCTCTCTGAAAAAGCCATTGCCATGGACTGCC  
AGACAGACAATGACAAGACACAAATACCTTCTGGTGTGTGAGCCACGGGACATGTGAGCT  
TCCCCGCTGATGCTCTCTTATATCAAAGATCACTTTCACAAGATGAGCGACTCAATATCT  
TTTATCAAACCAATGGTCACCTGCAAGCTATGGTATATTTTGCAGCTGTGTAGAGCTAT  
GTGGCATGAGAAATGTGGGACTTATAAATTGCTGATCCAATAAATAGACATTATGGGCAAC  
AGTGCTTATCAGCTAGTGTGTACCTGCCCCG

Sequence 175

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACGCGGGGGGAC  
TGGGGAGAACTTCGGAGGATGTTTATGTCCAGGAGCAGCCCCACGCCCTGTATGGTCGGT  
GTCTAGAGCCTCACAGCACTAAGACCAACCCAGCTCTCAGAAGAAGGAATGTCAAATG  
TCATGTTCAATTTTACATTCAAGTGCCTGGAATCTTTTCTTCACAATTGAAATGAAATGTG  
CTGAAGGAGGTGAATCCATGCATTAATCTTCAGCTCACAAAGGAAATACTACATAAGAAG  
CAAGACCACAGACTCAAGACGGACATAATTGGATTTTTTTGCCATGGCCTGGAAAGAAA  
GGTACCT

Sequence 176

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACTGAGCACAGCACA  
GTATGGCTATCATAGAGGGAAAATTAACTGAGTCACAAAATGCATTTTATAATAACACA  
GTAATGCATTTTATCCCTGGGTATAAATTGAAAATGTCCTATTACAGAGTGTTTTAAAAA  
TTCAGTGAATATTGTTCTAGCATAGGTAAGTTTGAATAAAAAGAGTAAATGAAATCA  
GTCTAGTCTTAAATTTGAACTTTTAAACAAGAAAAATCATTACAATACTAAGATTATT  
TTTTAAGGTATCACTTAATGACTTAATTACATCTTGCTATCATTATCTCTATTTTGTATA  
CAATCCATTTCTGTATTTTACCATAAAGTGGGAAAATTAAAGATATACGTGATCTTTAAC  
AGATCAAAAACCTTCATATCCCATGCTGATTATTCAGCTGCCTCTGAATCCTGTATCTTC  
ACGCTGCTCTCACGTGTGCTGCCTGATAAGTATATGTGAGGTTGAAGTTATTCCTTACT  
CGCGGTTCCGGGTGCTCTT

Sequence 177

ANGGCGAATNGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACATGACAGATAAATA  
CAGTTATTTCCGGCAATCATTAGTCTCAATAAGAAAATGATTCTCTTTTCTAAGATAGTC  
TAAGAAGTGGGAGGCTTCCAACTAAGTGTCAGGACTTACCAGGTGGTAGGTGGGCCATG  
ATATTATCAATCCCCCTCAGCCCCCTCTGCACATAGACTGAGGCATCCAGAGTCCCTGGATG  
AGTCTTGCCCATGCTGCCTTGTAATATATTCCAAATATTATCATTTTTAAATCATTTTT  
CCAAAGACAGGGGTCTCTCAAGGTTACCCAGGCAGGCATTGAACTCCTGGGCTCAAATGA  
TTCTTTTACCTCAGCCTCCTGAGTAGCTGGGATTGAAGGTGCCCATCACCACGCCTGGCC  
ACTTTTGTGTCTTCACATGAAAGCTATTGGAAATTATTGACTAAGGAACCTCATATGATG  
AAATTCTACGTTGAAAAGTTGAGGTAGAAAGTGGGCAGATAAATTTTCTACTTAAGAAT  
TATAAATCTATAGAGATAAAAGTTTATTATGAATGCTTANGTGTCTGGATTCTTTTGCTG  
TATTATCATCTTCTAGTTTCTGNTTAATAGTCACCTTTTAGTGAACCTGTTCAAATN

Table 2

AGGACTTTAATGAATATCCTTATTGGGGTAAATCTCTATTCTCTGCTTCACTNCTTTTAT  
ACCTTAATTTGGGGGGATAAATGCAAAATTTTAAA

Sequence 178

AGGTACTCATCTGTGAGAAGTGGAATAATTCAAAGATTACAATGGCTTTCCTCCCCCAA  
GGTCATCAGTGTTAACTGCCAACTAGATCCCTAGCCCACCCTCTCTGCTCATCCGAGCAG  
CAGATGCCAGGTGGGAGTTGCTTTTATGCACATGGGATGTCACTGTGACTGTCTCTGT  
CACTCTGTAACATAAGCTCATTTTCATTTTCTCTAGGTATATAGGTATGGATTAAATTAT  
TTTAGTCATTACATAATAGTCCACAGTTTAGATTGGCCACAGCTAACCATTCTGTATATC  
ATGGACATTCAGGCTCTTATAGTTTTAAGCTGCTTAATTATTCAGACTATGATG

Sequence 179

AGGTACAAACCATTGCAGGAGCTGAAACATCAACAGCTACCCATACTACTGCTAATAATT  
CAGGCTCTCTTGGCTCTGAGAACTTCAGCAAAAAAGCTGAAAAGGCTAACCTATAACATG  
TAAATAGGTTCTCATTTATCATCTTGATAACTCCAATTGGCTGATTCAAATACATATGGC  
TACACACCATAAGCTAAAGAAACACCTCCTAAGAGCCTGCTAGATGTCAGGAAAGCAATA  
AAGGGCAAGCAGGGAACCCAAAGTTGGCCCCAGGGTGTACGAGTCAGGAAAGTAATATA  
AAGAATATGGCATGTAGCTGGGTGCGGTGGCTCACGCCTATAATCCCA

Sequence 180

AGGTACATGAAAATGCACAAGACTCTTCCCACCCTGACCTCAGTGTCTGCCCCAGGAAG  
AAGAAGAAAAGTTTTGGCTCGAAAATGCTCTTCAAGGACACAAGGCGGTACCAAATTAC  
AGCATGCAGCTTTTCAGGGGATGACTAAAAGGATGAGGATGATGACTCATAGCTGGGGACA  
GAAGCGAATCCCTCTTGCTGACCTGTGCCCTCCTTGCACCGGTGTTCTTCTCAGCCCT  
CCTGGGGTGAGGATGTGACTGTCCCCTGGGAAAGCTTGGCAAGATAAGAGTAGGAGCACA  
AAGAAGGAGGTAGATAGAGAGTGTTTGCAGTCGATACTCAGTGGTTTGGGTAGGC

Sequence 181

AGGTACGCGGGGGGTCCCCAGTGGAACATGCAGTCTTAGGACAGAGCAGGGGATGGGG  
CCAGCTGACCTAGTGAGGAAATTTAGGCTCCTGCATCAGTCTTCTGCATAAGTAAAGAA  
AGGACAGTTGTGCTAATTGACATTGGCTATGAGGTCATAGCCACAGACAGGATTATGAAA  
GATGCAAATATGCGAAACATGGCACATGACCTCCCTCCCTCAAGCTAGGCCCTTGCTTTG  
TGTGGTTGGGAAATGTTGGGAGTAGCAGAGAGAGGACCTAGGCAAATAGATGGGCATTTT  
CTTGAAGAAATCGGTTTTCCAGTAACATCTGGGTTGTGTTGCAGCTGGT

Sequence 182

CCGGGCAGGTACGCGGGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTATGTATGTGTA  
TGTA AACAGAGAAAGATAGTGGTCCAGAGGCCAACACACCTGGAATCTATTTGTGAGGG  
TCCCTGCTTCAGTCCACGAATTGGGCCATTCAATTTCTCAGTAAGTGAACATCTGGG  
ATTCAGTTTGAAACGCCAATAAGTTTGGATGGGATC3CAAAGCTGTGGTTGGGATGTGGA  
ACTGCTCGCCTGAGGTGGGAGTGAGCGAGGTGAGCGGGGGCTCTTAAACTATTTCTGCAN  
ACTTCANTTCAAATGCAATANCCAGAGGGTTGAGAAA

Sequence 183

AGGTACGCGGGATATGGTTTGAGATATTATTGCTTGTGTTTACATTTCCACATTTGAGGC  
AAAGTTAGACTCCAAGTTGAATTCATTAAATTTGATTCCAACATTCTGTTCTTCTTTG  
GGCACAGAATTCCTATGAAATGAAACACTGGGTTTGTTCAGAACAAAGAACAGACTAAC  
CCAAAATTTCTCCTGGGGGAAAAAAAAAGAGTAAATTACATTTCTCATTGAAAATTGTA  
TTTCTCATTGAGGAAGGGTGTGTTACTTTATTATATAAAATGCCTTATCTTCATTATAAG  
AAAAAATGCCCTTGCAATTTGTCACTGTTGCCAATACATTAGGCCTGTA

Sequence 184

TTCTCCTTTGTGACAATGGGGACAATAACAGAACTGCCACACAAGAGGGATGTTAGAG  
AACTGACCAAGCGAATGTAAGTAATGACTTGGAGCAACGTATGGCTAAGAGTAAGTTAGG  
GGTTGTTACGATGACTTTCCTGAGATAAACAGGGAGATCTTTTAGCTGTGGGTCAAGTGC  
ANGAGGACAGTGAGCTCAAGGCCTAATGGAACTAACACTAATTGTACCT

Table 2

## Sequence 185

AGGTACAATGGAACTCAACGGATTACACTATTTTCTAAAGGGCCACTCATAAAATGAA  
GTTGGGTTATGGTTTTTTTTTCCCCCTTCCATTCTAATTTAGGAAGTGGAAAGTCACAG  
CAAGGGCAGGGGCTTACCCACGGTGACACAGCTTAGCACAGCGTCATCATTTTCATCCTGT  
GCTTCCCATGGATTCTATCCTCTCAAAGATTAACCTAAGCATTTTGCTATTTGATCTGGGT  
AGAGGGAAAAGGTGCCCAAGACATGAGAAGATAAAATTTCTTGACAGGAGGAACCAAGGTT  
AAACATGTAACAAGGTTCACTCACTTAAAAATATATA

## Sequence 186

AGGTACAGAGCCTGGCACGTAGCAAGTGTTGAAATATCTCTTGGAGAGAGAGAAAAAAA  
TGAATCTATTAATGTCTCTATGATGCACTGCGGAAGCTAGACTTGGTAGATCGAGTTT  
AAGGGAATGAAGAGGGGGTGAATGTTTGCTACTTCCGTATATTTGGAGTATTTGATAAAA  
CAGANNACCANTTTCTCTTCAAACCTCATGTGCGTTTGTAGGCCACCGCTACCAGGNTT  
AGGTACCTGCCCCG

## Sequence 187

AGGTACTCAAGCCACCTGCCTGTCTATGCCCCCCTAAAATGCTGGGATTGCAGGCCACCAT  
AACCGGTCATCGGGGCAACTATCCTTCAGGGCTTCCCTCCAGTAGGGCTCCCCAGGTTGGC  
CTTGAGGGCCACAATAAAAAATCTGACTTAGCTATACTCCTTCCCTGTCCCCAACCACAG  
TTATTTCTGTGGATGAGGCAAATGGCAGCAGGACAGCTGGAGTATACCAGAGTTGACTCA  
TTTATTTATGCATGCTTAGTGTGGCATCCCTGGGGACATGAAATTCAGTGAAATCCAG  
TCTTTGTGCTGGAGAAGCTCATAGATCTGTGGAGGAGGCAGATGCCAC

## Sequence 188

AGGTACGCGGGAGTAATAAGAAAACTCTAAAATGCATCGGGAGGGAAACACATTT  
AAAGCTCTGGAGGCATAAAAACTGCATATAAATTCAGGCCGCACCGATTGATAAGTGTG  
TTACTTTCTCAATTTACTTATTCTTTCTTAACCTTAGTTTTCTCATCAGCAAATATCTT  
AATTACATGACTTTGTAATCCATAAAGCTTGCTTCAAGCTCTTAGCATGCACACAGCACA  
TCTGCAAAAGTAAGCATTTGCCACTTTCCGTTTCTCAGGATAACATATTCACCCTTCCCTA  
CCTACTAGCAAGCTGTGCTCACAAGATTAATCAGGTAGTGCTAGAGAGAA

## Sequence 189

AGGTACACGAGCTAAAGGAATCCAATTCATATCCCAGGGTTGCATCGCAGTGGATTTC  
TACAGGCCAAGAAAAACAAAAACGTTTTTAAGCCTCCATCCTCAGATCAAAACAATAAA  
CAAAAAATTATGATATCCTTAACAATGTCTGGGTTAATATTTTATTCCATAAATCAAGT  
TTTCAGAACTCTTACCCTCTAAGAGATACAGATTGAACATGCCTTTATAGGCTCTGAAT  
TTCATAACTTCTAATCTATGCTCATAACCTGGAAAATGTCATCATACTGAATGCCACAT  
GAAAAGGTACCTGCCCCG

## Sequence 190

AGGTACTTGGACTGTGAGACCCCTGAAGGCACAGACAATGTGGCCCTGGCACTTGGCATG  
CTGTCTAGCACATCACAGACCCTCAATGAATACTATAGGTTGAATTAAATGTAGGACCTA  
AGGGAGTAAAAAGAACAGCGTCTCCAGCATTTATACAGCTGGAGGCCAGGAATCTTCCC  
TCTGGCTTTGCACTACAGTAAAGATATTTACTTATTTTTTAACAAAGTTTTATTTTAGG  
CTCAGGAGAATACATGTGCATGTTTCTTCTATAGGTAACTCGTGTGCATGGCGGTTTGT  
GTACCTGCCCCG

## Sequence 191

GGGAGGTTGTGGCGGCGGCGCCCTGCTCTTCCCCGCTCGTCTGGGGCTTCTGCTGGCTAG  
TGGGGANAAGTGCTCTTCTAGGGGGGCTTTNTGGCCCTTGNACAGGGGTTTGGAGTTGGA  
GTCACANGGGCCAATAACTCATCCCCAACCTTNTGAGGTGGCTCCTTGTGCCACNGA  
CTCCAANGAGTCCTTCACTACTGAACACTNAAAGCTGAGGAGGGCAATTTAGGTTTTNA  
TGCTGTACCANAATCTTCTGACAATNANTTACTGGAACCTTGAAAAAAGGA

## Sequence 192

AGGTACACCTGTAATGGCTACCCCGCTGGCTCAGAGCTCTGCCTCACCGCCCTGCCCCCG

Table 2

CACCTGCAAGCCAGTGTGCCACTTTTTGATGTTGTATGTTTTAATATCCCTGAGACA  
GACTCCAGAGTTCTGAGTTTTCTACTTGGGGTGTCAAATTATATCCAGGAACCAATT  
GGGTTTTCTGGCTTCTGGTTAAAAAGCTGGACAGATTTGAGTTGTTTGCTCTTAGTTC  
TCTCATAAACTGCACTATTTTAGGGCACTATTTGTAGAACACAAGATTTTCAGGAAG  
TATATTGAAAGGCCTGTACCTGCCCG

Sequence 193

AGGTACAAGTTGTCTTTATGCTGCGAGATAAGTCCTCTCTTGGTTTGAGCTCCACCTTT  
TCAGTGAACCTTTACATTTTGGGGATCTGCTCTTGTAAAGGACATCCTTTCTGGTGAGT  
ATTCTTTTGGTTTAATTTTGGTTTGGTTATTTGTGCATGAATTTAATCTCATTAGGAAA  
CAAGTTAAGTTGAATAGACCAACTAGTGAATTAATCCGTCACCAAAATATATGTTTTTG  
CATTTACCTGTTTATTTTGAAGTCTTTGTAAAGAAATGTAAACCTGTAATGATAATCTCT  
GCTTTGTAAGGATATCTCCCTCTCTGACACCTAAACACTAGATGCTTTC

Sequence 194

AGGTACTTTAGCTACTCGAACAGCATGCAGACAGGGTAAGAATCACAGAACCTGGCCGAA  
TACACAGCTCATTGAGCATCAACCACAAGGTGGCGCTGCTCAATGCTGATTGAGATGCA  
CAGCCCTGCTAGAGACGTTTCTCCACCATCAAGGCTACATTTGCTTGTGTCTTTCCAGG  
CCGGCCAAAATGCTTTCTCCTTAAGGTTTCAGGTAATACACATATGGCTAACAGTCTAT  
ATTGAGAAAAGTAAACCACTGAGGCACAGCAACTCCCTACCCCATCTTAGGACAGACTCT  
GACTGCACCTGAGAGGACTTATCTCAGCCTCCCTTAGTTAAACAAGGCAACAAAG

Sequence 195

TCGGCTCCCAGCTACTCACAGAGAACGTTTCTGTTTCTGACAGCAGAGTAAGAGAAGAGG  
TGAGAAGAGAGACAGCCATTCTCTTTTGGCCTAATTCCTAAGGAATCATGCCTCTGCCT  
TCGGGCCATTCTCAAGTCTTGTTCAAGGATAAAATGATTTATTGATGGCCGTAATTA  
AGCAATGCCAACGGAAGCAGCGTCAGCATTTTTCATTTATACCT

Sequence 196

CCGGGCAGGTACGCGGGTAGGGATGCAGAACTGGCCACAGTCAGGGCTGGCCAACAAGGG  
ATGGGATGGCAAGGGAACCAAGTGGGAGACTGTTACACCTTTGACTTCCTCTTCACAGGT  
CAAGGCAGGACTGTAGCATTAGGTCTCAGAGATGCAATGAACAGGACAAATACACTTCCC  
CTTCATCTGGACCTGAGGCTCTGGGCAAGTCAGTACCT

Sequence 197

CCGGGCAGGTACTATGTTACCCAGGAAACAGCCACTTAGGACACTGGTGAGCTACTCCT  
TAGGGGGTTGTGGAAATAGAGCCCAATCTGGCCTTGACTCCATCGTAGAGCACAATTTAC  
TGAGCAAATTCTAATAAATGTAAATTGAAATTTACATATGATGCTGTTCTTTTCAGAACC  
AAGATTGCTTCGCTTACTGCTTATCAACTCTTCCTCCTGTTTAGGTCTAGTTCTCTCCTG  
TGCAAGATTGCGACAGAAGCTGAGAGGAGCCTTCTGGTGTGTTGATCGATACACTCCCTTG  
ACCACAATTTATTCACTGTAGTCACAATGGATAGTCTTATGAAATCTTAAATA

Sequence 198

CCGGGCAGGTACGCGGGCTGCACATCTGGTCTCTAACAATGAATCAAGTAATTTCTCTCAG  
CTCATGTTGCTACAGCAGCCAGCCGGGACAGCCAAGTGGTTCGGAGAGAAATTGCTTAAG  
CCCTTAGCAAAAGCTTTACGATGCACTCACTCACCATTGAGATGGAATCTCCAGTTGACC  
AGGACCCCGACTGCCTTTTCTGTGAAGACCCCTGTGACTAGCTCAGTCACACCGTCAGTT  
TCCCAAATTTGACAGGCCACCTTCAAACATGCTGCTATGCAGTTTCTGCATCATAGAAAA  
TAAGGAACCAAAGGAAGAAATTCATGTCATGGCGCAATGCACATTTTATC

Sequence 199

AGGTACGTGACGGAAGGGAGGCTCACAGGGATGGTGTCTGCGACCCACTCAGCTCTGCCA  
TTTACCATCACCTGACTTTAAGCCAGTGTCTATTTGTAGGGCTGCTGTGGGGACCAATA  
TGAGCTGAGAGCTCTGCCAGGCACCCATACATGATATACCTGTAAGGGAGCGTCTCTTCTGC  
GGCCTGAACCTGAAGCTCTTACAGAGGGACCCATGCTGGGCTCTGAAGAAAGTGACTCACC  
TTGGAGGAGCAAGGGCAGGTCACATTCCATGATGAGAAATTCACACCACCTCCTTCA

Table 2

TATTTGACTCACATCATGCAGCATGGACTTCCACTCCAGTAAATGAGT

Sequence 200

CCGGGCAGGTACCAGGCTAGCCTTCCTGATGACTGCAGCAGCAAGGCTGCCCATGGGCCA  
CCCCAGACAGCCTGCTTAGAATCTCTAGAAGAGCTGCTTGATGTAAGACATTAAGACATT  
CTTAAACGAAGCCAGTCTTCAAGGACTAGAATAAATCCTTAATTCTTCCAATACATAGAC  
ATTAACGTAAAGCAACAAGAAACAAGGAAAGTCAAATAGACATAGCACTCCCCAAAGCAT  
ATAATAATCTCTAAGTTGATCCAAAGATACAACTGCCTGACAAATAATTCAAATAACT  
CATTAATAATGCTCACTAACTTCCATAGGATACAGGGAGACA

Sequence 201

AGGTACAAGTTGTCTTTATGCTGCGAGATAAGTCCTCTCTTGGTTTGAGCTCCACCTTT  
TCAGTGAACCTTACATTTTGGGGGATCTGCTCTTGTAAGGACATCCTTTCTGGTGAGT  
ATTCTTTTGGTTTAATTTTGGTTTGGTTATTTGTGCATGAATTTAATCTCATTAGGAAA  
CAAGTTAAGTTGAATAGACCAACTAGTGAATTAATCCGTCACCAAAATATATGTTTTTGG  
CATTTACCTGTTTATTTTGAACCTCTTTGTAAGAAATGTAACCTGTAATGATAATCTCT  
GCTTTGTAAGGATATCTCCCTCTCTGACACCTAAACACTAGA

Sequence 202

CCGGGCAGGTACAGACATTCAGGTTAATGCTGGCCAGTGGTGGGGGCGNGGGGGTTGTC  
ATTATTTCCCATTTACTAAGGAACAACAAATACCACATCTATTTATTTATATATTTAGTGC  
ATTGAGTAAAGATAAGAGAGACCTGCAAAAGAAAAAATATCTAGTGTGTATCAATGACTG  
AATTTGTGCTACATTTGGGATAGGAAAAGTGATAAGACATTTTAAATATTTCCAGCACA  
AATTTCTTCCTGTGTGGTTGTACCT

Sequence 203

AGGTACAAGTTGTCTTTATGCTGCGAGATAAGTCCTCTCTTGGTTTGAGCTCCACCTTT  
TCAGTGAACCTTACATTTTGGGGGATCTGCTCTTGTAAGGACATCCTTTCTGGTGAGT  
ATTCTTTTGGTTTAATTTTGGTTTGGTTATTTGTGCATGAATTTAATCTCATTAGGAAA  
CAAGTTAAGTTGAATAGACCAACTAGTGAATTAATCCGTCACCAAAATATATGTTTTTGG  
CATTTACCTGTTTATTTTGAACCTCTTTGTAAGAAATGTAACCTGTAATGATAATCTCT  
GCTTTGTAAGGATATCTCCCTCTCTGACACCTAAACACTAGAT

Sequence 204

CCGGGCAGGTACTAGGATTGCAGGCATGAGTCACTACACTCGCCCAGAAATTTGTTTTTA  
GAGTAACTACCATGCCATTAACAAACCTGACAAAATTAACAATTTCTTATCTTCAAGAAC  
TCAATTCATATTCAAATTTTATCATCTCAAAGCTGGTTTGTTCAAACAGGAGTCCAAAG  
TCCCCATACTGCATGTCATTACTGAGACCATACTGGGACTAAGGCAGGGAGGAATGAGCC  
CTAAGTGAGTCTGTAACAAGCGAGAAAGAGCTCATTCACTAAAAGAATTAATTTGGAG  
GTCTGGCCCAAGAAAGTGGAATAAACAAGAAACTAAACCTATTTC

Sequence 205

CGGGCGTTTTTGTTTTTTTTTAACTTAGTTTCTTTGCTTATTCAAGGGAAGAAAATCAG  
GTTTAGTTGGTGTCTATATGAATGATAGACCAATTAAATGCTTTTACTTTCCAGTTGCTG  
GAAGACCTGGGTCAAATTGGTATATAAGGACATGGATTTCTTATGTAACAATAAATAGAA  
AATTAGGACAGACCTCAGGCTGAACAGCAGTATCATTGAGGACTTAAGTATTTTCTCCT  
GTTATCATTATAGCATTAACTTCATCCCAAGGATGGTGCCCCCTCTAGTTGTTATAAGA  
TGCTGCTGACACAGTTATGGCATATTCTTCTGTTTCAGG

Sequence 206

ACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGCCGAGGTACAGTTCCATCTTTG  
GCCATAAGGAGACAATGGTGTCAAGAGGCTAAGGCCATATGATCTGTAGGTGAAAAACCT  
GGGATGAGAATCAAGGCCTCAAACCTTTTCCACTACATCACAGATTTAGGAGCAGTTAGA  
GGGAAGGCTTCAATCTGGAGAACACTAACAGGCTCTAGAGATTATTGGGTCATGGTGGCT  
GGGACAGAAATAAGGATTCACAGAAAGATGTTTGTGTCAATGTTCTTTACAGTAAATG  
TTCTTTTGAGATTTTGCTTGATAAAAAGGTTGAGCAGAAGTGAAAAAATTTTTTTCTTT



Table 2

TTTTCTTTCTTTTCTTTCTTTTCTTTT

Sequence 207

CCGGGCAGGTACCATTTCTCCAGGCACATACAACATGAAATATCATACAGCTGTGAAAGAT  
CTGGTGAAAGCTGGAATATTGAGGAAGAAACATTTTTGAAATTTATTTCTCTCTCTAA  
GTCAGTAAATGTTTGATATAATTCTNGAGTGCATGGCTGTAGTCTGAAAGTTTATTGTGC  
CCCTAAATTAATATGGTCAAAAATTCCTAAANCCNCCCCTGGTGATGATATCANGGA  
GGGNNGGGGCCCTTTTNGGGGGGNAAAAAA

Sequence 208

GGGGCCATTGAGACTGCCATGGAAGACTTGAAAGGTCACGTAGCTGAGACTTCTGGAGAG  
ACCATTCAGGCTTCTGGCTCTTGACAAAGATAGACCACTGGAACAATGAGAAGGAGAGA  
ATCTNTNTGGGTACAGACAANACTCTNTTGATCTGNAATACNACTTCATCATGTTNT  
NNNGNGTGCAGCTGCAGCGGATTCTCTGAGCGCTGTCTATCGCATCTGCCTGGGCAAGT  
TCACCTTCCCTGGGATGTCCCTGGACAAGAGACAAGGAGAAGGCCTTANGATCTACTGGG  
GGAGTCCNGANGAACAGTCTCTTCTGTCCCCGCTGGAACCC

Sequence 209

CCGGGCAGGTACGCGGGGAGACACATTGAGAGGTGAGCCCAGAGGGGGTAAAGTGGACTG  
GGGAGAACTTCGGAGGATGTTTCATGTCCAGGAGCAGCCCCACGCCCTGTATGGTCGGTGT  
CTAGAGCCTCACAGCAACTAAGACCAACCCAGCTCTCAGAAGAAGGAATGTCAAATGTC  
ATGTTCAATTTTACATTGAGTGCCTGGAATCTTTTCTTCACAATTGAAATGAAATGTGCT  
GAAGGAGGTGAATCCATGCATTAATCTTCAGCTCACAAAGGAAATACTACATAAGAAGCA  
AGACCACAGACTCAAGACGGACATAATTGGATTTTTTTGCCATGGCCTGGAAAGAA

Sequence 210

AGGTACGCTGGGAAGATGCTGCCAAGCAGCAGGATCACCAGCTTAGCTGTGTGTGGTGAA  
GTTATGCAAATACCTCCCCCTGTCAACTGTGGCAGCAAAGTCCCCGGAAGGACTTGGACT  
GTCCTGGTTTGATATATGCTCATTCCCCCATCAAGCACTGTGGCCGGGAATCAGGAAGT  
TGACTGGTCTGACCTGGGTCTGTGCCCACCTCTGGCTGGTAGGAATGGTTTTGATTTTG  
TGATCAATCCTGAAGAGGAAGACAGGTGCATGGCAAAGGAAAATGGGATAGTACCTGCCC  
G

Sequence 211

CGCCGGGTTGGCGGCCGCCCGGGCAGGTACGCGGGGAGGTGGTGGCGAAGCCGCCTTCCC  
CTTTCCCGAAAGGTTTCGGAAGCTTGGTGGTAGCTCTTGAAGATAACGCTTGCGTTAGGG  
CATTACTTGCCNNAACCNNGNAAAGGGAATGGGAAGTCCCATTTGAAANCCAANTTTCTT  
GGANTTGAACACNAATTTTAAANNAANCCCCATTTTTTTNAA

Sequence 212

CCGGGCAGGTACATTTTTTTCAATTTAAAAAATAAAATTTTAAGAATAAAAAATTTTTAA  
ATTTTAAACATTTTTTTAAATAAAAAAGAAAAGCAGATAATTTGTCTACCAAGCCTAGAT  
GGATGTATACTATAAACAGGTAATACTGTAGTGTGCCATAGGGTGATAAGCGCCATGGA  
GGGGATTAATTTTCATGCAGAGCGGGCCTGCAGGAAGTAAAGGAGCGAGCCGTGAAACTGT  
CTGGATTAACGAGTTCTCAGGTAGAGGGAATAGCAAGTGCAAAGTCTCTTGAGCGAATTT  
GCAGGGGGAAGG

Sequence 213

AGGTACGCGGGGACACATTGAGAGGTGAGCCCAGAGCGGGTAAAGTGGACTGGGGAGAAC  
TTCGGAGGATGTTTCATGTCCAGGAGCAGCCCCACGCCCTGTATGGTCGGTGTCTAGAGCC  
TCACAGCAACTAAGACCAACCCAGCTCTCAGAAGAAGGAATGTCAAATGTCATGTTCAA  
TTTTACATTGAGTGCCTGGAATCTTTTCTTCACAATTGAAATGAAATGTGCTGAAGGAGG  
TGAATCCATGCATTAATCTTCAGCTCACAAAGGAAATACTACATAAGAAGCAAGACCACA  
GACTCAAGACGGACATAATTGGAT

Sequence 214

CCGCGGTGGCGGCCGCCCGGGCAAGGTACAGTGAAGCTTTGACCTGAGGAGCTCTTCTGT

Table 2

AGGTGAAGAGTGGTTAACTATGGTTCCTGTGTGCCTGGGGCCCCCACTCCTAGGACTCA  
TCCACCCCCTACCCAGAACTTACTAGTACCT

Sequence 215

TCACAGCAACTAAGACCAACCCANCTCTCAAAAAGAAGGAATGTCAAAATGTCATGTTCAA  
TTTTACATTCAAGTGCCTGGAATCTTTCTTCACAATTGAAATGAAATGTGCTGAAGGAGG  
TGAATCCATGCATTAATCTTCANCTCACAAAGGAAATACTACATAAGAAGCAAGACCACA  
GACTCAAGACGGACATAATTGGATTTTTTTGCCATGGCCTGGAAAGAA

Sequence 216

AGGTACGCGGGCGTTTTGTTTTTTTTTAACCTTAGTTTCTTTGCTTATTCAAGGGAAGA  
AAATCAGGTTTAGTTGGTGTCTATATGAATGATAGACCAATTAAATGCTTTTACTTTCCA  
GTTGCTGGAAGACCTGGGTCAAATTGGTATATAAGGACATGGATTTCTTATGTAACAATA  
AATAGAAAATTAGGACAGACCTCAGGCTGAACAGCAGTATCATTACAGGACTTAAGTATTT  
TTCTCCTGTTATCATTATAGCATTAACCTTCATCCCAAGGATGGTGGCCCCCTCTAGTTGT  
TATAAGATGCCTGCTGACACAGTTATGGCATATTCTTCTGTTTCAGGTTTCAGTGGAAGA  
ACAC

Sequence 217

CCGGGCAGGTACTCCCTATGTCTCTTGCTCTTCTTGACAGGGGAGTCATTTTTATCATA  
AGATGACAGAGGTGCAAGAAGCTAAGAAGAAAATGAAGGACATTTTTAGGTTAGGCTCTG  
TATGGCCACACTGTTACCTCCACCCTCATGTGCTTGACCAGCGCAGTTCTGTGGCTGAG  
CCCAAAGCCAAAGGGTGGCGATTACACTGGCTTCCAGGGAAGACTTCAAAGCCATATAA  
CATAAGGGTGTCAGTATTGGGCCAATAATTCAGCCTGCCATACTTCTCAACCCATATAGTT  
TGGTATGATCTGAATCTCCACGATCTCCATATACTTCACATTAATG

Sequence 218

TCGGCTCCCAGCTACTCACAGAGAACGTTTCTGTTTCTGACAGCAGAGTAAGAGAAGAGG  
TGAGAAGAGAGACAGCCCATCTCTTTTGGCCTAATTCCTAAGGAATCATGCCTCTGCCT  
TCGGGCCATTCTCAAGTCTTGTTCAAGGATAAAATGATTTATTGATGGCCGTAATTA  
AGCAATGCCAACGGAAGCAGCGTCAGCATTTTTCATTTATACCT

Sequence 219

CCGCGGTGGCGGCCGCCCGGGCAGGTACAATTATTTTGACTTTTATGTCTGAAAATGGTC  
ATCACAAAATGTTAGGGAAAAAATAAGAGATGTGGGTAAACATCTCTGGTCTCTGGTAT  
CTTCATAGCCACAGACTTGTTTATACCTCATTACATCTTTTTTTTTTTTTTTTTTTTT  
TTTTTGAGACAAGAGTTTTGCTCTTGTTGTCCAGGCTGGAGTGCAATGGCATGATCTCA  
GCTCACTGCAACCTCCACCTCCTGGGTTTAAGCGATTCTCCTGCCTCAGCCTTCCGAGTA  
GCTCGGATTACAGGCATTGCGCCACCACGCCCGCTAATTTTTGTATTTTATTANAGA  
CAGGGTTTCTC

Sequence 220

AGGTACCCCTTCATGAGAGGCGAGCACAACTCGACCTCCTATGACTCTGCAGTTATTTAC  
CGTGGTTTCTGGGCAGTCCTGATGCTCCTGGGGGTAGTTGCTGTAGTCATCGCAAGCTTT  
TTGATCATCTGTGCAGCCCCCTTCGCCAGCCATTTCTCTACAAAGCTGGGGGAGGCTCA  
TATATTGCTGCAGGCATCCTATTTTCATTGGTGGTGATGCTGTATGTCATCTGGGTCCAG  
GCAGTGGCTGACATGGAAGCTACCGAAACATGAAAATGAAGGACTGCCTGGATTTCACC  
CCTTCTGTTCTGATGGCTGGTCATTTTCTGCCCCAGCTGGGAT

Sequence 221

CCGGGCAGGTACTGTCCATCCCTGAGCCGGCCCAAGTGTCTTCTGTTTTCTTTACCT  
CTCCTTAGCACCAGCTGCCTAACAAAGTCAGCGGGCAGCCAGGGCAAAGAACAGTTTGGG  
CGACTTCAATATGACTCTCTCTCTGAGCCCCGATCCAAAAGNAAGGCTCACCTTAGT  
GAATGTGCCTTTGCCAGAGGGTCTTCCCTAGGGTGAAGGGGAAAAATCATGTTTCACAA  
TTNAG

Sequence 222

Table 2

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGGGGAGGGCGTAAGAATGA  
CTACCAGCAATCTGGCTGAAAGAGAGAATGGGATAAGGAAGACTGAAGGAGAAATGATT  
TAGAGTGGGGAGTCTCAGGAGCTCTATCTCAGATATACCAAGTTTGAGGTGTATTAAGAC  
AACCAGCCAGGTGCAGTAGCTCATGCCTGTAATCCCAGCAAGTTGGGAGGCCAAGGCCGG  
CAGAACCCGAGGTGCGTAGTTCGAGACCAGCCTGGCCAATATGGTGAAATCCCGTCTCTA  
AATTTTGTATCTAAAGATACAAAAATTAGCCAGGTGTAGTGGCACCGTGCCTGTAGTCCT  
AGCTACTCAGGAGACTGAGGCAGAAGAATCACTTGAATCCCGGGGGCGGAGCTT

Sequence 223

AGGTACCCAGTCCCTCCCTCTTAGCCTGGAGCAGCTCCTCAATGTGCTAAGCCTTCCAA  
GGATAAGCTGAGCCCTGGACAGAGGAGGCTCCCTTCAGGCCAGCACTGCCATTACTTG  
AAGACAAGGTGAGCCTCAGCCTGATGTTGAAGGCTAGCATTAGGAACCCCGCTCAGGATC  
TCCCATTCTCCAAGATCTGCTTTATCAATAAGAAAGGGGATGCTGCCGGGCCTGGTGGCT  
CATGCCTGTATCCCAGCACTTTGGGAGGCCGAGGCGGGTGGATTACCTGAGGTGGGGAG  
TTCGAGACCAGCCTGACCAACATGGAGAAACCCGCTCTACTGAAAT

Sequence 224

CCGGGCAGGTACTGTCCATCCCTGAGCCGGGCCACAAGTGTCTTCTGTTTTCTTTACCCT  
CTCCTTAGCACAGCTGCCTAACAAAGTCAGCGGGCAGCCAGGGCAAAGAACAGTTTGGG  
CGACTTCAATATGACTCTCTCTCTGAGCCCCGATCCAAAAGAAGGCTCACCTTAGTG  
AATGTGCCTTTGCCAGAGGGTCTTCCCTAGGGTGAAGGGGAAAATCATGTTTACAATTT  
CAGGGAAGTCTGAATGGTAGGAGCCAGGTTTTACATTCTGGTCTTTAATGCATAGTGGC  
CATTCAATCCATTAGGCTTCTTATGTCATGACATAA

Sequence 225

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACGCGGGGG  
CGGGTAAAGTGGACTGGGGAGAACTTCGGAGGATGTTTCATGTCCAGGAGCAGCCCCACGC  
CCTGTATGGTGGTGCTAGAGCCTCACAGCAACTAAGACCAACCCAGCTCTCAGAAGAA  
GGAATGTCAAATGTCTGTTCAATTTTACATTCAAGTGCCTGGAATCTTTCTTCAAT  
TGAAATGAAATGTGCTGAAGGAGGTGAATCCATGCATTAATCTTCAGCTCACAAAGGAAA  
TACTACATAAGAAGCAAGGACCACAGACTCAAGACGGACATAATTGGATTTTTTTGCCA  
TGGCCTGGAAAGAAAGGTACCT

Sequence 226

CCGGGCAGGTACGCGGGGAGACTGAGTGGGGTCACAGCACAGGGCACTGTCTTGCTGGC  
TTTATCTGAGCCAATCACACCTCTCCTGGCCACTATCTGTGGTCTAGCCCCCTTTGTGCA  
GAAAGAGAAAGAAGAGCCTTGAGGACCAGCCTAGTCAGGCTGAAGAAATGTCAACAATTG  
GGAGTTTTGAAGGATTCCAGGCTGTGTCTCTGAAGCAAGAGGGAGATGACCAACCCCTCTG  
AGACTGACCACCTATCGATGGAGGAAGAGGACCCGATGCCAAGACAGATTCAAGGCAGT  
CAAGTGTGACCGAATCAACTCTTTACCCCAATCCTTATCATCAGCC

Sequence 227

AGGTACCTTTCTTTCCAGGCCATGGCAAAAAAATCCAATTATGTCCGTCTTGAGTCTGT  
GGTCTTGCTTCTTATGTAGTATTTCTTTGTGAGCTGAAGATTAATGCATGGATTACCT  
CCTTCAGCACATTTTCAATTGTGAAGAAAAGATTCCAGGCACTGAATGTAAATTG  
AACATGACATTTTGACATTCCTTCTTCTGAGAGCTGGGTGGTCTTAGTTGCTGTGAGGC  
TCTAGACACCGACCATACAGGGCGTGGGGCTGCTCCTGGACATGAACATCCTCCGAAGTT  
CTCCCCAGTCCACTTTACCCGCTCTGGGCTCACCTCTGAATGTGTCCCGCTA

Sequence 228

AGGTACCCCAAAACCAGGGGCTGCAGCTCCAGCAATTGGGAAGGCCAAGTTTTCTTGAC  
GCTCCCCAGAAAAGGGGGCCAGTCCATGGGGCTGAGCAGTGATAGACTGCAGACCTCACC  
ACCACTGAACCTTGATAGGATAAGGCCCACTAGCCTGGGATGCTAGTGAGGCCACCCTAGT  
CCTCCTGAGTTCTCCAGCTGGGAGCAGCTCTACACTTCTCCGGCATGCAGCTCCCAAAGA  
GAGAGGCAGTCCACCTTTTTGCTGTCTCGCAACCCTCCCTCCTTGCTGCTCTCAGGCTTG

Table 2

GGAGGGTGCACAGCAATTAGGGACTATCACAGAACCCCAACACAGTGCATCTGGTGAA

Sequence 229

CCGGGCAGGTACTTCCTGCAATGGTGAAATGTTCTCTGTCTACACTGTCTATATCGTA  
GCCACTCGCCACATGTGGCTATGGAGCTCTTGAAGTGCAGGACAGATGGACTGAGAACTG  
AAATTTAAATCTTACATAATTTAATCATGAGATAGTGGCTACTTGACAAGATGCTGGAG  
AACAGGCTTTGGAACCAACATGATTCACTGACATGAAGCTCCACATCTTGGCCTATGGA  
CACAATGAACAATGCATCTACTAGCTGTTTAGGGCAGCCTGTGAACAGAGCACACAGCTA  
TTGCAAACAACAGACCCGGGTTTCAGAGTCAGGA

Sequence 230

AGGTACTTGATTCAAAGCCTGGGTCTCCCAGAAGTGAGCTGTGTGGCTTGGGCCACTTTA  
TCTCCTGAGGTCTCAGAGTTTTCATGTATAAAATTGTAGAACTTGTCTTGATGGTTTTGA  
ACATTTCTTTCTAATTCTGCACAACAGTCCATTTGTGGGTTAGATGAGCCTTTACCAAAT  
GTATTTTCATGGAACAATGGTCCCAAGAGCTGTTCTGTGAAAAGTAAGTTTCATCATCAA  
TAATTTTGAGAAATCTGAATCCTATATGCGTGTGATTCTATTTCTTTCTTCCATTCT  
TTCTTGAGTCCACTCTGATTGGTCCTTAAAGTTGGAGTTATTTTTATCATTATTGTGA  
TTGTCATGGT

Sequence 231

CCGGGCAGGTACTCAAATATAGCCCCAGGGGAAGACAAACGGTCACAGATGAGGCAGGA  
AGAGTGCCTGGGAGAATTTCCCATTCACCATGGAGCCAAGTGAAAGACCTCACCATCAG  
CTGCTGCACAGAAATGACACAGCCACCCACACAAGTGGGAGATCGAGGAGGAGGCACGGC  
CAGTTTGTGTTGGAATGGACAGGTGTGTTAGGTAGGAGTCCAGCCTTCACACCCTGTGTTT  
CCTTTCTTTTGCTTTGGACCTTCTTTCCTAACTAAAAAGAGAGCCAGTGAAGGTTCTTGA  
GAAGGGGATGGCAAAGAGCCATGAGATTTATCTTTGTAAACCTCGAAGTGTTGGGT

Sequence 232

CCGGGCAGGTACGGAAGAACATGGGAGTCTGTATGCAGCAGCAGCTCTTGTTTCAGTTACC  
TCACTACTAAGGAGCACCTTCTCCTATATGGTTCCATCAAAGTTCCTCACTGGACTAAAA  
AGCAGCTNCACCGAGGAAGTAAAANGGACTTTAAAAGATACTGGACTATATAGCCATCGN  
CATAAGAGAGTTGGAACACTGTCAGGAGGCATGAAGANGAAGTTATCTATATCCATAGCT  
CTCATTGGTTGGATCAAGGGTAGTAATTTTGATGAACCATCTACTGGAGTTGACCCATG  
TTCTCGCCGAAGT

Sequence 233

TATAGGCGGAATTGNAGCTCCCCGCGGTGGCGGCCGAGGTACTCTGCTATAACATGAGAT  
CTGTCTCTCCAGGCTCTGGCTTCTCAAGGACAGCTGCCACCAGGTCTATCCATCTTGT  
AAGTCCAGTTCTTAACGTCCCCGCGTACCTGCCCC

Sequence 234

CCGCGGTGGCGGCCGAGGTACTGGAGGTCCGAGCTACCACAGAAGACAACAAAAATCAAT  
ATAAGGTATAGGAAGATTGGAAGAAAGAAAACAAACCACCTAGGCTGAAATCCCAAACA  
AACTGGACACGCAAAATTATTAAGGTGATTTTCATAAATGTTATGTCATTTAAGACAGCCA  
TATAAAAGGAATCATTATTCCCATTTCTCTATGAGGAAATAGAGGCTCAGAAAGGTTTT  
GAGCAACTTGCCTGAAGTTGAAGTCCCCCAGCATATTAAGTGCTGAAGCCAGAATTCAA  
ACCAATTGATAATTTCAAGTGCTCTTACCCTAGACCACATGGCCTCCCTNAGTTAATAT  
TCACC

Sequence 235

AGGTACTTCCATCAAGTCGAGGGAGTAACGCAAAGTGAATAGTAGCCATCTATTAAGGA  
TAGTTCTGAGGTTTGGAATTTGTAAGTATTTTTAGGAGCTACGACATGAATATCATATC  
AGGTAGAAATACTCAGAGTGATCACCTTTTATGAAAGTTAGTTCTATCTTTTCATGTCTAG  
GAAAATATAACAGTGAATGTTTGCTTTTGTATGTTTGTCTCCAAGCAGAGGAACTGA  
CAGTTTTATGTTTTAGGTGCCGAAAGTTGTTTTTGGCTAGGCAGTTCCAGAGTTAATCA  
CTTGGGATGCTAACTTGAATTTTTGTCTTTAAATGTTTTAGATTTTTAAACC

Table 2

## Sequence 236

CCGCGGTGGCGGCCGAGGTACCTACTATGGGACCTAGACAGGCTGTTTCACTTCTCTTAT  
ATCTGTAATATAAGCAGAGTAAGTGGAGCCCTTTTGTTCACCTGCAGTTGGATCTCAGTG  
ATTTGGGGAAGGATCTTGGGCCTCCACTTGCAGTGACTATAGTCACTATAGCTTCATCAG  
CAGGGGCGGGAAATGATGCTGCCTCCAGCTTGAGAGTGATGAGGCCAGCACCTCCTGGGA  
GCCCTCGATAATTTTATCTTCTTTTGAATCCTTCCCCAAATCTCTTGGTTCCACTCAA  
ACTAGGAACAGTCTGCCCAGTGTGGCAAGCTGTGGTGCCACCTCTCTTACAGCTGTCC  
CCACAGGACTACTATAATTATTCACCTTTTATCCCATTGCCTGTAATGC

## Sequence 237

CCGGGCAGGTACTTTTAGAAGAGACAGGGTTTACCATGGTGGCCAGGCTGGTCTCGATG  
TCTTGACCTCGTGATCTGCCTGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGTGTGAGC  
CACCACACCCGGCCTGAATTGCACCTTTTGTGGCTGAGCCAAATGCTCATTCTATTTAAT  
ATTGCACAGCCTGAACCAAAACCCGTAACATTATAAAGGAAGAGATGAGAGCCATTTCAA  
ACTGTGAGAGAAGAGAAGACATCAAGCAAAATCTGGGGGTTTTAGCCAACAGACTTCAGT  
CCTGGGACCTCGCAGCAAAAAACACCTTCANTTGCCCCAGGGCTTTACAGGG

## Sequence 238

CCGGGCAGGTACGCGGGTGTCTTGAGTTTTGAGCTCATGGTTAAAGCTGAGAATTAAGC  
ACTGCCCTTACAAGTCTAGGTAAGCTCAGTAAGGTGTTGCAAGGTGGTGCAAAGGGCCC  
TGGGAGGAGGGTCCAGTTGCCACCTTTGTCCACTGCTTTGTGATGAATTCTAGATCA  
CCTTGTGGTTACCTGCCTATTAGGAGGTGCTGTTGAAAAGCGACTTTAAAAAATAGGAC  
TTTGGGAGAGTGGGGCAGATCAAATGAAGGGACCAGCAGTGTTCATAATGGTGCTGAAAT  
TTAATTTCAAGTGTGACCTTTTATTGACATTTTAGATAATGCTATGGATGTGCTCAGT  
ATTTGTTCTTAACAT

## Sequence 239

CCGGGCAGGTACGCGGGGAGAGCGGGTAAAGTGGACTGGGGAGAACTTCGGAGGATGTTT  
ATGTCCAGGAGCAGCCCCACGCCCTGTATGGTCGGTGTCTAGAGCCTCACAGCAACTAAG  
ACCAACTCAGCTCTCAGAAGAAGGAATGTCAAATGTATGTTCAATTTTACATTCAAGT  
CCTGGAATCTTTTCTTCACAATTGAAATGAAATGTGCTGAAGGAGGTGAATCCATGCATT  
AATCTTCAGCTCACAAAGGAAATACTACATAAGAAGCAAGACCACAGACTCAAGACGGAC  
ATAATTGGATTTTTTTTGGCATGGCCTGGAAAGAAAGGT

## Sequence 240

GGGGCCATTGAGACTGCCATGGAAGACTTGAAAGGTACGCTAGCTGAGACTTCTGGAGAG  
ACCATTCAAGGCTTCTGGCTCTTGACAAAGATAGACCACTGGAGCAATGAGAAGGAGAGA  
ATTCTACTTGGTCACAGACAAGACTCTCTTGATCTGCAAATACGACTTCATCATGCTGAG  
TTGTGTGCAGCTGCAGCGGATTCTCTGAGCGCTGTCTATCGCACCTGCCTGGGCAAGTT  
CACCTTCCCTGGGATGTCCCTGGACAAGAGACAAGGAGAAGGCCTTAGGATCTACTGGGG  
GAGTCCGGAGGAGCAGTCTCTTCTGTCCCCTGGAACC

## Sequence 241

AGGTACTTAACCATGGGTTGCCATGCTTTTATAGCACATGACTTCACTACTCTGAGCACA  
GCTAAGAGAATTAATAATCAGCAACTGATGCAAAGGTAAGGTAGACATTTTCAAATAGC  
CAGAAGCTGATGATGTGACCTGGCAGCTCTGCCAAAGGGGCATACTACATGAAGTTGTC  
ACTAGGCAAAACCAATCAGGTCCTCTCTTAGGAAGGCTGAATACAGAGTCAACAGACACC  
GTAAGTTTTGCATAAGACAGGAAAAACAAAAATAAAGCAGTAAGCTAAGAGGCTGAGA  
AGAGATGAGATAGGCAGGTCTCCGCAAGTGAAGAGG

## Sequence 242

AGGTACCTCTCATAAACTTTGTTCAATCAGCCACTTGAAATAAGCCACGTGGGTTATGTG  
CCACGCAAAATTTCAAGTAATGGGTTTTGGGGGTGTTAGATAGCAACAACCTTCATAGACT  
GAACCTTTTGGTTTTTTTTCTTTCTCTCAACTCAGAGGTTAAAAATTAACCTGAAAA  
TCAATGCTGCAATATGAATGCGCTGTATGTTTCTTGATGGACTTGACAGACTCTGTAA

Table 2

CGGTGTTTCCAGTCTCCAGCAGTTCATATTGGAAGGTGAGCTTTCACATGGACAAGCCCT  
TTGCGTTGCCAAGTAGTAGTGATATTACAAGTTTGAAAGACAT

Sequence 243

AGGTACNCCAAAACCANNGGCTGCAGCTCCAGCAATTGGGAAGGCCAAGTTTCTTGAC  
GCTCCCCAGAAAAGGGGCCAAGTCCATGGGGCTGAGCAGTGATAGACTGCANACCTCACC  
ACCACTGAACCTTGTANGATAAGGCCCACTAGCCTGGGATGCTAGTGAGGCCACCCTAGT  
CCTCCTGAGTTCTCCAGCTGGGAGCAGCTCTACACTTCTCCGGCATGCAGCTCCCAAAGA  
GAGAGGCAGTCCACCTTTTTGCTGTCTCGCAACCCTNCCTCCTGCTGCTCTCANGCTTGG  
GAGGGTGCACAGCAATTAGGGACTATCACANAACCCCAGCACAGTGCATCTGG

Sequence 244

CCGCGGTGGCGGCCGAGGTACACAAGTAGAACTGTTAAAACCGTGTGGCTTCCAACTGCT  
CTAATAACTTTAAGATTCACAGTCTTCAACTTTCTTACAGTGGAAGCCATGGGGGCATTG  
TCCTGTTGCCCTTCTCTCATTCTCTCATTAAATGAGAAAGATGTTAAGCTCACTTGACGTA  
AGTCCCAGTGAAGTCTTCTCCAGAACTCAGAAGGGCCATAAATAGAGAGACAAAGGGCAG  
GAGGTGGGAGTTATTCACCAGCGTGGAGGAAGGAGGATAAGCCCAGAGGAATGGCCTCTG  
GGAATTATACAAAGAATTTGGAGGCGACTGGGGG

Sequence 245

CGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGNCAGGTACNCGGGGACATTCANAGGT  
GAGCCCANNTNNGGTAAAGTGGACTGGGGAGAACTTCGGAGGATGTTTCATGTCCAGGAGC  
AGCCCCACGCCCTGTATGGTGGTGTCTANAGCCTCACAGCAACTAAGACCAACCCAGCT  
CTCANAAGAAGGAATGTCAAATGTCATGTTCAATTTTACATTCACTGCGCTGGAATCTTT  
TCTTCACAATTGAAATGAAATGTGCTGAAGGAGGTGAATCCATGCATTAATCTTCAGCTC  
ACAAAGGAAATACTACATAAGAAGCAAGACCACAGACTCAAGACGGACATAATTGGATTT  
TTTTTGCCATGGCCTGAAAAGGAAAGGTACCTCGGCNCGCTTCTAGGAAGTAGGTGGGA  
TCCCCC

Sequence 246

AGGTACAATCTGAACAACCCCTTTTTATTGCTTACTTTGCGTTTTAAGGGTCTCAGTTAAT  
GAAGTATCTCCTAGCACAGGGGATGAGAAGAGGGGAAAGAAGGCAGGGCATCACCAATCC  
ACTATTCCCTTTTACTAATCCTCACAGGAAAAGACCATCCTACAACATCCTCCAAGTCCA  
GCTGGCTATCTGTTCTGCCTCATTCTTCTATGTTTTATTCCACCAACACGAACAGGCTT  
AGTTTTCCCCAGCCCTGAACAGAAGCTCTGTCCTCCTTAGGAGACACCTCATTTTGCAGT  
TTGTTTCCAAGCTTCAACTTCAT

Sequence 247

AGGTACGCGGGTGAGAAAAGGCTCTAACATGAGTTGATCTTGAGCCCAATGTTGAACAGC  
TCCAGACCTTACAATTTAAAAAGTAGTTCAGACCGGGTGTCTTGAGTTCCGCAGTATAC  
CTGGTCCAGTGGACACTTGAGAATGCCGTTGGCACATGCCACTGGCCATTGAGGGGTCC  
CCAGATGCATAAACAGCCTGATCCTGTAGCTCCCCCTCCCCACACGGATGCATGGAGGCA  
GGTGGCGAACTCTAAAGCCTCACTGAAAGGCAGATTGCTGGACTGTTAGAAGGGGCTCAC  
TCACCTGCCTCCAAGCGCTTGTCTTCTGTTTACAT

Sequence 248

AGGTACGTTTCCCTCACAGATATCAACTATTGTGCATATCTCTAGTTCTGATTCTAGTT  
AATCAATATCAGCAGAAAGCTTATCATTTTCATGTCTAAGTGTCTGTGTGGGCATGAAATT  
GTTAGGAATTGTTTTAGTGAATAACTGATTCAAAAATTCAATTGCTTAAAAACAAGATTTT  
TTTTTTACAGAAGCATTGAGAACTCCAAAGAGATTATAACTCACAGAGAATTATTTTAAA  
AAGCAGATAATATCTTATTCCTTTTTTCCACACATCTCCACATACCAACTTAAATCTTCA  
CCAGTAAAGAGGAATCCAGGGGAAATCATAAGAGAAGCATCTTTA

Sequence 249

ATCGACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGGGGGCCATTGAGACTG  
CCATGGAAGACTTGAAAGGTCACGTAGCTGAGACTTCTGGAGAGACCATTCAAGGCTTCT

Table 2

GGCTCTTGACAAAGATAGACCACTGGAACAATGAGAAGGAGAGAATTCTACTGGTCACAG  
ACAAGACTCTCTTGATCTGCAAATACGACTTCATCATGCTGAGTTTGTGTGCAAGCTGCA  
GCGGATTCCTCTGAGCGCTGTCTATCGCATCTGCCTGGGCAAGTTCACCTTCCCTGGGAT  
GTCCCTGGACAAGAGACAAGGAGAAGGCCCTTAGGATCTACTGGGGGAGTCCGGAGGAGCA  
GTCTNTTCTGNCCCCG

Sequence 250

CCGGGCAGGTACTAGAAAACTCAGAAGCTGGAACGTGGGAATACATCTTCATTTACAG  
ATGAGGAGGACCTGTCTCAGGAAAAGAGGTGACTCACCCAAGGTTATAGCTGGTTAGTGG  
CAGAACCAAGGACCAGAAGCAAGGCCTGCAGCCTCTTGTGTAGGCTTTCCTAGTGCGTGCT  
GCTGACCCTCAAAGCTGTCTTGGCCAACCTACCACCTGTGTGACACTTACCCCCAGGCA  
GCTGTAGGGAGGAACACAGATGTTTCGGGAAGGCACTTGTGTTACTGTATAAGCACAAAG  
GAAGCTGGGATCTGAGTATGGTGGCCCTTGTCTGGTCTC

Sequence 251

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGACACATTC  
AGAGGTGAGCCAGAGCGGGTAAAGTGGACTGGGAGAACTTCGGAGGATGTTTCATGTCC  
AGGAGTAGCCCCACGCCCTGTATGGTGGTGTCTAGAGCCTCACAGCAATTAAGACCAAC  
CCAGCTCTCAGAAGAAGGAATGTCAAATGTCATGTTCAATTTTACATTCAGTGCCCTGGA  
ATCTTTTCTTCACAATTGAAATGAAATGTGCTGAAGGAGGTGAATCCATGCATTAATCTT  
CAGCTCACAAGGAAATACTACATAAGAAGCAAGACCACAGACTCAAGACGGACATAATT  
GGATTTTTTTGCCATGGCCTGGAAAGAAAGGTACCTTGCCCCG

Sequence 252

AGGTACTACAGTCACTAAAGCTCAGTTTCTTAAATCCATATTTTAAATGGGACTCTGCTGG  
ACATTGAATACCACCAGTCCACTTGTCTAGGATGTCTGTTCTCATGTGCAGTGTGATGAAG  
CCTCTTTCATGATGTATTGACTTTACTGGACTGAAATATTTTGAAGAGTGTGAGCCCTTT  
GACAAGATCCATCTGACCATTTCTGTTACAAATGATTTCTCCACACGATTCCACTCAA  
GCACACTCATTTATATAACACAAAGTAACTTTCCCAAATAATCATCACTTCAAAAAAG  
ATCGTGAAAATACTGATAAAAAGAATTCTCCCGGCCA

Sequence 253

CACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTGTCA  
GCCTCACTGGCATAGAAAGAAGGTGGAGGAAATGGGTGCTGCTTTCATTTCTGAGGTATA  
AGTGGTGATGTAGATAACTGCTATAGGAAATGCCACGCATAGACAAATGGTAAAGAAG  
TTCCAGGTAGTCAGCTGGTTTCAACAATGAATAAAGCAGGACACCCTGCTTAGAGGTTGA  
AATCAAATGAAGAGCTTTGGAAAGAGATACCTGCTCTACAGTGTGGTGAGTGTGGAAT  
GGAGGAGAAAGCAAGAGGAATAGCAATAGAGTCAAGTCTTGAAGGATGACGGCACATAAG  
GAGAAAGTGTTCCTCCACACTAAGGAAG

Sequence 254

ACTNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGATCTGACTTATGT  
TTAGTAAGATCCTGGGCCACTGGGTGCCCTGTAGAGAAGAGACTGAACTGGTCTAAGAGC  
AGAACTGTGAGAGCAGTTAGGGCACTACTAAATATGCCAGGTGAGGCATGGTGATTGC  
CTAGACTGGTGTGCAAGCTGTGGATGCAGAAAAAAGTAGCTGGATTGTCGATGGATTCTG  
AAGGTGGAGTCAAGAAATTTGGTCATGGACACGGGTGTGAAAGAAGGAACCCAAAGGATTC  
TGGCCTGAGCCACTAGAAGACTTGGAGATGCCATCATTTGAGATACAACCAAGGCTTGTG  
GGAAGAAGAAATTTTGGGGTGGGAGTTGAGGTAATTGGGGAAAAAGGGTATTAAGGGAG  
CCTCAATTCGGGA

Sequence 255

CCGCGGTGGCGGCCGCCCGGGCAGGTACTCTCAGTTCACCTTCATGTGGGAGGGTCATTT  
GCCATCCATCCAGATTACCTTTTGTATTAGGCTTTTTCAGTGTCTATAAATATTTGGTCT  
TTTCTGATCATTTAATTTCTAATACATGCATATGCTCCTATGTATAATAAATAGACAACT  
TCAAATTTGCAGTTTCTAGATGGTTGGAAGAGGAAACATTGTGGTGTGTAATTTATCAG

Table 2

CCATCAAGATCCTAGATATTTGAGATTTTAACTAAGCAAGGTATTAAGATAGACCATGTT  
GTTTTGGCTTCACAGAATTCATTCATATTGTGCATTACACAATTCAGTGTGCATATTGCA  
CAATTGATTTTATCTGTAAGTTGTCTTTATCAGT

Sequence 256

GCGGCCGAGGTACCCTGGGCAGTAGAATTTTCATTGAAAACGCCTNTGGACTNCAACTAAA  
GATGCAGAGAAGCCCAAGTTCCTCCCTCTCTCTTGCTTCTGGAGCTCCTTGATGTTACAT  
CTATTATAGTATCATTATATCAAGTTATAACAATCTGTTTCCCTTTATCTCCTCTAGTGG  
CCTGGGAACCTCTAAGAGGCAAACACAGTCCCCATACAGGAATGGGATGTCTGCAGAGCT  
GTATAACTCCTCTCTCTGTCTGAAGAATAAAAACAACATTATACAAAGGAAAAAGAA

Sequence 257

CCGCGGTGGCGGCCGCCGGGCAGGTACGCGGGTGTCTTGAGTTTTGAGCTCATGGTTA  
AAGCTGAGAATTAAGCACTGCCCTTACAACCTGCTAGGTAAGCTCAGTAAGGTGTTGCAAG  
GTGGTGCAAAGGGGCCCTGGGAGGAGGGTCCAGTTGCCACCCTTTGTCCACTGCTTTGT  
GATGAATTCAGATCACCTTGTTGTTACCTGCCTATTAGGAGGTGCTTGTTGAAAAGCGA  
CTTTAAAAAATAGGACTTTTGGGAGAGTGGGGCAGATCAAATGAAGGGACCAGCAGTGT  
TCATAATGGTGCTGAAATTTAATTTAGTGCTTGACCTTTTATTTGACATTTTAGATAAT  
GCTATTGGATGTGCTCAGCTATTTGTTCTTAACCATATTTCCATCTTTTGGGGGGC

Sequence 258

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACACACGTTAACCACAA  
AACAGGCCCTCTCTGAAAAAGCCATTGCCATGGACTGCCAGACAGACAATGACAAGACACA  
AATACCTTCTGGTGTGTGAGCCACGGGACATGTGAGCTTCCCCGCTGATGCTCCTCTTAT  
ATCAAAGATCACTTTCACAAGATGAGCGACTCAATATCTTTTATCAAACCAATGATCACC  
TGCAAGCTATGGGTATATTTTGCAGCTGTGTANAAGCTATTGTGGCATGAGAATGTGGG  
ACTTATAAATTGCTGATCCAATAAATAGACATTATGGGCAACAGTGTCTTATCAGCTAGT  
GTGGTACTAAGGTTTCAGGAACAGNTGTTCTGACCTTACTATCCAACGAGGGAGTAACTG

Sequence 259

CCGCGGTGGCGGCCGAGGTACTTCCGTGAGATATAAGGCTGATGATAAGGATTGGGGTAA  
AGATTGATTCGGTCACACTTGACTGCCCTTGAAATCTGTCTTGGCATCGGGTCCTCTTCC  
TCCATTGATAGGTGGTCAGTCTCAGAGGGTTGGTCATCTCCCTCTTGCTTCAGAGACACA  
AGCCTGGAATCCTTCAAAACTCCCAATTGTTGACATTTCTTCAGCCTGACTAGGCTGGTC  
CTCAAGGCTCTTCTTTCTTTCTGACAAAGGGGGCTAGACCACAGATAGTGCCAGGA  
GAGGTGTGATTGGCTCAGATAAAGCCAGGCAAGACAGTGCCCTGTGCTGTGACCCCACTC  
AGTCTCCCCGCGTACCTGCCCC

Sequence 260

AGGTACGCGGGTAGGCACCTGCCACCACGCCCGGCTGATTTTTGTATTTGTAATTTGT  
ATTTTAGTAGAGACTAGGTTTCACCATGTTGGCCAGGCTGATCTTGAACCTCTGACATA  
AGGTGATCCGCCCACCTNCCAAAGTGCTAGGATTACAGGCGCGCCAGCCCTGTTGATT  
AGTTTTCTATTGCTTCATGACAACAAATCACCACAGGCTTGGCAGTTTAAATACCACTG  
ATTATCTCACAATTCTCTAAGTCAGATGCCCTGAGTTCAGCCAGGCCAGCTGGGTCTCT  
GCTCANTCTCATGGGGCCAGTGTCTTGAGGTGCTTGGGTTACCCCTTGAGGCCCTCAAG  
CTTATGCACAGTTGGCTCAATTATTCCTTGACGCTGTAGGACTGGGTC

Sequence 261

AGGGNGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCCCAAACAACCATCTAAAAA  
TATACCNTTCCTGNCAGGTGCCAAACTTGCTTTTTAGTTTCTTGACAAAAATTCTGGG  
ACCATCCTTGAATTTTCTATTTCCAGATACACTGCAGTTAATCACTAACAAATTGTGT  
TATCTGTGCCTTAAAAAACATGCCCAAAGGCCCGGGCGCTGTTGGCTCACGCCTCTAATC  
CTAGCACTTTGGGAGGCAGAGGCGGGTGGATCACGAGTTCAGGAGTTCAAGACCAGCCTG  
GCTTGCACGGTGAAACCCGCTCTCTATTAATAAATAAAAAATTGGCTGGGGCATGGTTGG



Table 2

CGGTCACCTGTAGTCCCCCGGTTACCTGCCCCGGGC

Sequence 262

CCGCGGTGGCGGCCGAGGTACGTGGGCTTTACGTAAAGAAAATGTGCCATTTTTCAAGC  
CAGATATAGCTTCTGTATCAACAAATGGAACACAAATCTTTAGTCTAGGACTTAGAGTTG  
GGGAAAAAGGGAAAAACAACCTATAACACTTAAATGAAATCTTTGTATCTTAGGTTTGT  
GACCAGAGTATTATATATATCTAATGCTACTAAAATTATGATGTTATCGAATATTCAA  
GTTAATTCAATAAGTGGTGGTTATCTGTAGTAATCATAGAGAAAGGAAGTATTACTATGA  
GGGACCTGCGGGTACCTGCCCC

Sequence 263

ACTATTTAGGGCGANTTGGAGCTCTTCGCGGTGGCGGCCGAGGTACATTTACGGANGTG  
GGACCAAAAGAGGAAAGAACAATAATNTNCTAAGTGCCAGCATGTTGGGAATGCATCATTG  
CAATAAGATTGTGAACTAATGCTGGCAGGCAAACAACAAAAACAACACTGCCACAAA  
CTGCAATATGCTTATCAGGGTCTGACCAAGAAGAAAGGCCCGATCTTCCACAGAGGAC  
ACTGGCACCAGTCCCAGGTCTGCAACTCTTGAATAGCTCCATGTGCCGTGTTCTCTTCA  
NGTACCTGCCCC

Sequence 264

CGGCCGCCCGGGCAGGTTGCGGAGGGAAGGAATTACACATTTAGAANNTTATAAGTAAGA  
GGTTGTGTTTTGTAAAGGGAAAAAGAGATTTTTTTGTCTAAAAGTAGAATGTCTTAC  
TGTTCCAAAAAGAAAAAGAGAAAAATATAGACAAAACTGAATAAGA

Sequence 265

GCCCGGGCAGGTACCTAATTTTACTCTTAAGCANNTGCGCCTTGTAATTTAGGTTGGTTT  
CATTTCAATTTCAACGGGAGAGAGTCTGCTTACACCTGTTGCAGTGTGCTTCCAGTG  
AACACCCAAGCCTGGGCTACAAGAGCGAGAGTCCATCTCAAAAAAAAAAAGGAAAAAAAA  
ATAAAGAAAAAAGAGGCAAAGCATCCACTGATCCTACATTCTGTNTTATCACATTAC  
CTTGCTCATCTTCACTTCGGTCTCTCCACATTGAAGGGAAGGTGACATGATGTCTTCT  
TAGNCATTCAAATCCAATTAACTTTTAATTCTGAAGGTTAAAGTAATGAGGATATTAAAC  
TAAGGAGATGGATAATATTCAATTTTTATGTTCACTGAA

Sequence 266

NCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGGGGGCCATTGAGACTGCCATGG  
AAGACTTGAAAGGTCACGTAGCTGAGACTTCTGGAGAGACCATTCAAGGCTTCTGGCTCT  
TGACAAAGATAGACCACTGGAACAATGAGAAGGAGAGAATTCTACTGGTCACAGACAAGA  
CTCTCTTGATCTGCAAATACGACTTCATCATGCTGAGTTGTGTGACGCTGCAGCGGATTC  
CTCTGAGCGCTGTCTATCGCATCTGCCTGGGCAAGTTCACCTTCCCTGGGATGTCCCTGG  
ACAAGAGACGAGGAGAAGGCCCTTAGGATCTACTGGGGAGTCCGGAGGGAGCAGTCTCTT  
CTGTCCCGCTGGAACCCATGGTCCACTGGAAGTTCCTTATGGCTACCTTTCACTGGAGCC  
ATCCTATTGAAA

Sequence 267

GGGCGNTTGGAGCTCTNCGCGGTGGCGGCCGAGGTACAAGTTGATTATGNAGGTGGCCGG  
GGTNCAGGCTTCATCTTNCTGTGCTCTGAACACACCCACACCTCCTCTATTTTAGCACA  
TTTCCCAGTTGATTCCAAATGCGTGCTCACTCCTCTTTTCCCCCACTAGAGAGTAAGCC  
TGATCTTGCTCACTCGCAGTTAAGCTTCTGGACAACCTGTGGCGTATAATAAATTTTGCT  
CAACAAAATTTATTAATGAAGGAGTATCTCCAATTTCAAGGCAAATTTCTTTGTTATC  
TTGGAAACTGCCATAGGAGCTGTGTCTGAATGTGGTGATGGGTGAAGATCTGTACCTGC  
CG

Sequence 268

TACGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTT  
AACACCCCATGAGGAAATTAAGGCAGGGTGGTTCAGTAATTTGTCAAGGGAAACAAGGA  
AGTAGAGCAGGCAGCAGAGGCGTTCTGGCTCTGAACTACTCTGTTCTGTAGAAATCAGTG  
CAAAAGTCCAAGCTTCAGCATACTTGTTCATCTTGTGATCACAGGTAGTTTTTTTT

Table 2

## Sequence 269

CTGGGGCAGNGGGAANCTNGCAGCNGCTGGNGANGANCCAAANCCTCNGCGCTCACCTAA  
GCCGCAGGNAGATACACCCAACTGGNANATGANGAAACANCAACCNATANAGGAGAACTA  
ACCCACACAGGATCATTNCNCGAAGGAACNAGGCTGAAGAACCAGACCTGGACTTTCTTA  
NGACAAACTTACTGCAGCTTGAAGGAGCCAACCATGGATTGAGGCGTGTGAAGGAATAT  
TTCTCCTGGCTCTACTATCAATACCAAATCATTAGCTGCTGTGCTGTTTTAGAGCCCTG  
GGAGCCGATCTATGTTTAAACCATNTTACTAACCATTATTGCTATGGTGGTATACACTG  
GCCTATGTCTTTATTCCAAATCCACATTCGCTGGCTTGGGGAATTT

## Sequence 270

CCGGGCAGGTACACTGTGTTCCAGACCCTGTGCCAGGCACATGGAAGACACATCTTTGTT  
TATACCCTTCCCATTGGTGTCTACATGACACTGCCTGTATTATATTTATCTGTGTTTCATAT  
CTTGACAAGAGGTTTGAAACCAGTGCCAGGCCTAATTCTTTTCTGGTGGTCCCAAAGC  
ACCCAAAGGCCTTGGGGGGNAAAATTNCCCCNAAAGGGGNAAGGNCCCTTCCNAATTAAG  
NTTGGCTTTTAATTGAAAAAAATTTGAAAAATTTTTGGNACCGGNTGGNTAATTAAC  
CCNNCCAAAAAGGTCCTTGGGGCCANGGAAGGGGNCNTTGGGAANGAAAAATGAACCAA  
GGAAAAANTCCCTNTTGGCCTAAAAAACCTTCNAACCANGNGGTAANNTTNCATAACC  
CCCCC AAAAGNGGGCTTTNCTTTAGGNCCTTGGNTTCTTCNAATTCCAAAAAGGGGGC  
CCCAATTCCTTGGGGGGNCCTNGGAAGGGGCCAATTTCAATTTGGGGTTCCAAGGTTTT  
CCAANCCTAANGGGGTCANANAAAANGGAAGGGGGGNCCTCAACCCACNCCANAGGGG  
TTGGCCTTGNCCTTNGGGTTGGGGCCTTTNNATTTTAAGGGGGGAACCCCTTTTCCC  
CAA

## Sequence 271

CCGGGCAGGTACCCAGGGAACAAATGCTACTGGGACTCCACACCTACCTAAGAAGCAGCT  
CTACCCAGACTCCACATGGCTCTCTGTTTTGGTCTGGAGACCCAGCTGGGGTATCTCCT  
GAGCCCAGGGATTCAAAGGTTCTGTGGCAGAAATATGCATCCACGGGACTCTCACTCACT  
CACCATTTTCTGTAGGGGGATTCCCTGGGTCTGTGCCACTCCTGGGTGAATGGCTGAT  
CTGTCTCACTCTTCTCCGTGATCCGAAGGTCACACTATGTCACTGATGAATCCITATGT

## Sequence 272

CCGGGCAGGTACACATTTTCCATTCTATCTCACGAGCTCAAGAGCTTTATACTAACCAG  
CCCAGAAGATATTTTCTTGCTCTAAATACTGTAATTTTGGGGTCATTTATACCCAC  
TTTTTATTTCTTTCAAGGACCTCTTACTGCTCATTATAAATGCCATTATCCTTCTCTACA  
AGCGATCAAATATTATAAGGCTGTGACAAGTTAGTTTTATGTTTGCATTGTAAGTGAAGTC  
CCATCCATCTATCCTTGGGAGTTTCTGAAAACCTCTATATGAACCTCACTCAAAATACAC  
AAGTAGCATGTAAGCGTGCTGATCATATTTTAAAAATATGAAG

## Sequence 273

AGGTACTTGGGAGGGAGCAGGAGGATTGCTTGGGCCAGAGTTTGAGGTTGCAGTGAGC  
TATGATTAAACCACTGCACTCCAGCGTGGGCTACAGAGTGAGAGCCTATCTCAAAAAAA  
AAAACCAAAACCAAAACAATAAAAAAATACTTATGTGCGCTATCACATTTGACCTTTTC  
ACTGCAAATTACTCTATATTTGAAATAATTTTATCTTTCTAGTAAAAAGGGAGATTTCA  
CCATATCTAATGTTACTTAATATAACTTAATGTTACTTAATGTTAATATAATACTTAA  
TGTTACTGGCTCAGAGACTTTGCCAAAGGATAG/ATAATTCATAAAACA

## Sequence 274

AGGTACAGTGTGGTTGGGAGCAGCTGTGATCCCGCCAAAGACGTGCAGCAGAGACTGGAG  
AGAGCTCGAGCCGCCACCCACTTGTGACCAGCCCTGAGGATGCAGCTGCGTGAAAGAACC  
TGGCAGAAAATAGAAGCCGCCACAGATGCGAATGACGCCTGAACGCTCAGTGTGCTCCCT  
GTCCACACACAGCCGTGGGCCAAGGAAGCCTTACTGTGCTCGAGGTATTTGAGCCCAGCG  
TTTTTCCAGTGCTGGCTAATTGCTAAGCTGTGCAGACACGGTGGTGACCCCTTGGGAAGCC  
AAGGTTGAAAATTAATAAGGCATGTGGGAAGGAACGGGGTGGCCACGAG

## Sequence 275

Table 2

CCGGGCAGGTACGCGGGGACGTTAAGAACTGGACTTACAAGATGGATAGGACCTGGTGGC  
AGCTGTCCTTGAGGAAGCCAGAGCCTGGAGAGACAGATCTCATGTTATAGCAGAGTACCT

## Sequence 276

AGGTACACGCCTGTAGTCCTAGCTACTCAGGAGGCTGAGGCAGGAGGATGGCTTGAGCTG  
AGGAGGCAGAGGCTGCAGTGAGCCAACATTGCAACACTGCACCCAGCCTGGGCATTAGA  
GCCAGACCTAGTCTCAAAAAATAAATAAAATAAAATAAAATAAAATGTTTAATAA  
TGCCTACTCAGACAAAGAAAGGCTCAGGCAAAAGACTGAGTCTGATCTTCTACATTGAGG  
AGACCATGTTGATTAGTGTATATTCAAAAAACCAATCCCAAGTAATGCATACACAGC  
TGAAAGAAGGAAGTATTCCAGCTACAC

## Sequence 277

AGGTACAGAGCCTGGCACGTAGCAAGTGTTGAAATATCTCTTGAGAGAGAGAGAAAAAAA  
TGAATCTATTAATAATGTCTCTATGATGCACTGCGGAAGCTAGACTTGGTAGATCGAGTTT  
AAGGGAATGAAGAGGGGGTGAATGTTTGCTACTTCCGTATATTTGGAGTATTTGATAAAA  
CAGAAGACCAAGTTTCTCTCAAACCTCATGTCGGTTTGAGGCCAGGCTGCCAGGGTTTA  
GGGTACCTGCCCCG

## Sequence 278

AGGTACAGAGGGTGCCAGGCACTGTGGTGCACACCTGTAGTCCCAGCTACTTGGGAGGCT  
TGAGGCGGGCGGATGCTTGAGGCCAGGAGTTTGAGGCTGCAGTGTGCTGTGATTGCTCCT  
GTGAGTAGCCACTGCACTTCAGCCCTGGCAACATAGCAAGACCCTGACTCTAAATATAAA  
AAAAAGTATAGCGGGCACAATGGGGCGAAGCCAGGGTGGGATGCAGAGTCTAGAGGGAG  
ATGAAGCTGGAGAGGCAGGCAGTGGTCAACATGTGGCCATGGAAAATAGTTTAGGTTTGA  
TTCTGATGGCACTGGGCTGCCATTAGAGGGTTTGAAGCAGGTCAGTGAT

## Sequence 279

TGTTAAGGGAAACCACAGGACAACAGGTGAGTCACCAAGCAGCAGGACAGCAACAGTGAG  
TTAATCATACAGAGGGCTACCACCCCACTGGGCTGATTTCTTCTGTTTAAAGAACACATT  
CAAATCCAAAGCAAAGAACGAAATAATGTATTTCTCCCACTTCTCCAAAAGACAATGCT  
GAGCTCATGACCACATCTCAAAAAAGCTCCTAACCACACCCAGCAGAACCTCAGCATTGA  
GTATATAATGCTTGGCTGACAATGTGCCAGGGGAAATACAGTACCT

## Sequence 280

CCGGGCAGGTACGCGGGTAGGGATGCAGAACTGGCCACAGTCAGGGCTGGCCAACAAGGG  
ATGGGATGGCAAGGGAACCAAGTGGGAGACTGTTTACACCTTTGACTTCCTCTTCACAGGT  
CAAGGCAGGACTGTAGCATTAGGTCTCAGAGATGCAATGAACAGGACAAATACACTTCCC  
CTTCATCTGGACCTGAGGCTCTGGGCAAGTCAGTACCT

## Sequence 281

AGGTACAAAGTTGGGAAACAGGTGAGCAAAGAAATCCATGGGTTGAGTTAACAGTGATTT  
CTAATCTCTTGAAGAAAGAGGGCATTATTTTTCAACACTCTCTCTTTCCAGCTCACCC  
TAAATATCTAATTATAAGTTTACGCCATACATTAAAGTGAAATTAATTTGAATATGTTT  
TAAGAAATAACATTCTAATATTCTAGGAAATAAGAGAATTCTAGGGGCTCCACCATAT  
CAAACCTTTGATTTTACTATCACACAATTTCTTTCTCCTATTTTCGAACTACCACTGTT  
TCTAGACAAAATACCAGATGGTTATTTTGTTC

## Sequence 282

AGGTACCAATATTCTGCAGAAAACAAAACCCACCTGCATTCTCTACTCCTATCATGATG  
TTCTGCCCCCGGGACCTTGTTTATNGCTGGTCTCTCTTTTGAAAGAAGCTTACCCCT  
TTCTTCACCCAGCAAATCTTACTCAGACTTCAAGACTCAGTTCAGAGTCTGGGGATGAA  
TATTCTACAAATGGCCCCCAGGATTGTCATGGTCTCACGGCAGGTACCTGCCCCG

## Sequence 283

CCGGGCAGGTACTAGGATTGCAGGCATGAGTCACTACACTCGCCCAGAAATTTGTTTTTA  
GAGTAACCTACCATGCCATTAACAAACCTGACAAAATTAACAATTTCTTATCTTCAAGAAC

Table 2

TCAATTCATATTCAAATTTTTATCATCTCAAAGCTGGTTTGTCAAACAGGAGTCCAAAG  
TCCCCATACTGCATGTCATTACTGAGACCATACTGGGACTAAGGCAGGGAGGAATGAGCC  
CTAAGTGAGTCTGTAAACAAGCGAGAAAGAAGCTCATTCAACTAAAAGAATTAAATTGGGG  
GTCTGGCCCAAGAAAGTGAAAAATAAACAAAGAAACTAAACT

Sequence 284

AGGTACACAGAGACACACACTGAGACACACATACACAGACACACATACGCTTCTCATA  
GCTGAAAACATGGAAGGCAGTCCATCTTTCTAGACAGTGAGTATCTAATAACAAGTCAAGA  
CACAGTAATTACGCTACAGACAAAGGGAGGGAGGATAAAAAGGAAGGTCACTCTGATTGA  
AGAGGAGATGGTTAGTAGGGGGATGGATGCAAAGGCCAGATGTGGGAGAAAGAGACTGGC  
AGGCCTAAGGTCAATTCTTATCTTGTCAGTGTGGAGAAAAATGTGTTACCAGCAGCGTTT  
AGTCTAATGATGTGTGAGAGATACACAAAACAAAAGGGGGGTGAGGGTTTTGGGT

Sequence 285

AGGTACTTAAGGAAGGGCAAGCGTTGGTAGCAAGCTTGGCTTTTTAGTGTCTGGAGCTC  
CCAGGAGAGGAGCAAAGTCTTGCTAACTAAGGCTTGTTCTGTGAATATGAAGATGCTT  
CTCTCCAGTCGCTCAGTGGGAAAGTCAAATCCAAGGCTTTGGGGAATGAGAATTCCAACA  
TTAAGGGGTAAGGAGAAGAGAGACTCAGCATTCCATAGGATGCTGGGCTTGAAGATGGCT  
CTCCCTCTACCACGGCATAGGGATGAGAAGAAGGAGGGGGCACAGGTTAGGTAGGAGCT  
TACTCAGTGCATCTGGAGGATGGAAAACCAATGGCGCACTCCTCCCC

Sequence 286

AGGTACAGGAGGGACTTTGTGGAGAATTCAGGGTGGCAGAATAAGCTCCTGAGAATTTAA  
CTTAATCTTATTCTTCTCAAATTTAGCTTCAATGAAGAGAAATGAAAGCTATTGTTTCTC  
ATTCTCACATCTCCCAGAAAGTAACATTGAAGGTAATCTCAGTGTCTTGAAGTTAGCCT  
TTTTGAGTGGTTAAGTTGAAAAGAAGTTCTATCTTGGTGGGCTCCCCCAGAGGCTAAATG  
GGCCTTTGCATTGGGAGGTCAAAGTCCGGGTTTCATGCCATTCTCCCGCTCAGCCTCCTG  
AGTAGCTGGGACTACAGCCCATGAGGCTACTGAGCTAGAGTTTTTGT

Sequence 287

CCGGGCAGGTACCACGGTTTGTGCGTTTGTGCGCTGGCCCTGAGTCGCTCCTAGGGATGGG  
GTGAGTGAAATTGATGTGGAGTGGCCACTCTTGCCGCAGACCTCTGGGAGCCTACCTGT  
GGGAGACCCCATGATTCTCATGAACATCTGAGCTGGCAGGAAGAATTCCTGGAGAGTTG  
ACAGAGATGGAACCTCTAGCCTGCATGGAGCCCAGAGGGTTTGTGTGGGAACAGTTGCAG  
TGGAGCATGGCTGTGGATATCCATAACACCATACTCCTCTAGGCAGCTCTAGCCTTTGTT  
GGCTGCCAGACCTGGACAATAGAGGGCTGGCTTGCTTGTTGGAATGGGACCAGTC

Sequence 288

AGGTACAGTTCCTCTGACTGTTGACGACGGAGTCCTGTTTGTGGACCCGCCACCTGGGTT  
TTCTTCCTTGGCATGTGTAGTCCGTGGGTGGGATGGCTGGAGCATCACTGGCTATAACCT  
GTTTCCAGAGCAAGCCTGTCCAGGACAAGAACTGTGTGTTTTCTATGGGAACACAGA  
TTTCCAGGAACAAGCCTGCAGCTTCTCTCGCAGGTCAGAGTGATTTGTCCAATAGCAGTG  
GCTTCAACCAGGTCAAATCACGGATCTGAGAG

Sequence 289

GGGGCCATTGAGACTGCCATGGAAGACTTGAAAGGTCACCGTAGCTGAGACTTCTGAGAG  
GACCATTCAAGGCTTCTGGCTCTTGACAAAGATAGACCACTGGAACAATGAGAAGGAGAG  
AATTCTACTGGGTACAGACAAGACTCTCTTGATCTGCAAATACGACTTCATCATGCTGA  
GTTGTGTGCAGCTGCAGCGGATTCTCTGAGCGCTGTCTATCGCATCTGCCTGGGCAAGT  
TCACCTTCCCTTGGGATGTCCCTGGACAAGAGACAAGGAGAAGGCCTTAGGATCTACTGG  
GGGAGT

Sequence 290

AGGTACTACATGTAACAATGACAAAGCAATTCTGTGACAGAATTGTTGTCTGATGGATGC  
CTGAGTTTTCTGATTCTAGATCCCAATATTTATAGACTGTGAGAACGCACCTTGCTAGC  
ACTGGTCAAGCCAATGTTTCTGACTTTTTTTATTATCAGTGAAGAGGGCTTTTTGTTATA

Table 2

GTTTAAATTTCTTTTATTCTAGAAATTGCCTCAGACAGGGATTGATGTCAGGAGCCTTC  
AAGGAGAAAAATATACATGAATGGGAGACCCAGGTTGCGGGCAACAAGAGTCACAGGTA  
TGGGAGAAACCAGGAAGTCTGTGCCATGTTGACTTTGCTCATCTCATCGTGTCTTGACC  
TGCCCGGCG

Sequence 291

GGGGCCATTGAGACTGCCATGGAAGACTTGAAAGGTCACGTAGCTGAGACTTCTGGAGAG  
ACCATCAAGGCTTCTGGGCTCTTGACAAAGATAGACCACTGGAACAATGAGAAGGAGAG  
AATTCTACTGGTCACAGACAAGACTCTCTTGATCTGCAAATACGACTTCATCATGCTGAG  
TTGTGTGCAGCTGCAGCGGATTCTCTGAGCGCTGTCTATCGCATCTGCCTGGGCAAGTT  
CACCTTCCCTGGGATGTCCCTGGACAAGAGACAAGGAGAAGGCCTTAGGATCTACTGGG  
GAGTCCGGAGGAGCAGTCTNTTCTGTCCCGCTGGAACCCAT

Sequence 292

AGGTACTACATGTAACAATGACAAAGCAATTCTGTGACANAATTGTTGTCTGATGGATGC  
CTGAGTTTCTGATTNTAGATCCCAAATATTTATAGACTGTGAGAACGCACCTTGCTAGC  
ACTGGTCAAGCCAATGNTTCTGACTTTTTTATTATCANTGAAGAGGGCTTTTTGTTATA  
NTTCTAATTNTCTTTTATTCTANAAATTGCCTCAGACAGGGATTGATGTNAAGAGCCTTC  
AAGGAGAAAAATATACATNGAATGGNAGACCCAGGTTGCGGGC

Sequence 293

NCCNNCCNNGNACTGCNNCNGATTNNCCTATGATNGTGNNNNCAATNAATNANACTAACN  
NATNTTNCNTCATTTTTNNNTCTNAGGGTGNGNATATAANCCCTTAATTNTTATGGGCTCA  
ANNNNAGNNAGNTNGNCANNNNNNTATNTAAAAGNNCTGTAGGGGACATNACCCAATTCC  
CTAGCCCTGCAAGGATGTCTATAGCAAAGACTGCCAGTTGCCTATCCAATACCCCTTCTG  
CCATCTTCTGCCTTTTATGGCTCACAGCTGCCAGTCCCTCATAGCTAGATGTGACCTTG  
TGACTAAGTTCTGGCCTATGAGAAGTAAGACGTATCTCATGGTGTGTTTGAGAAAT

Sequence 294

CCGGGCAGGTACATGGAACCTTATGGGACACAAACAGGAGAGTCAGGCAATGTGAAAAGA  
CTTCTACACTATTGTTATTGTGTTTCCAAAAAAGTAAAAAATAGATGGATAAAGTGGA  
AGACAACAGAGAGATAGTTTGGCTAGCTGGGTGAGTTCAGTTTTTCTCCCACTTAAC  
CTAAGCAAAAGCTTTTAAGAAATTCAGACTGGGAAGGCTGGGTGCGGTGGCTCACGCCTG  
TAATCCCAGCACTTTTGGGAGGCCAAGGCAGGTGGTGGATCACCTGAGGTCAGGAGTTG  
AAGACCAACCTGACCAACATGGCGAAACCCATCTCTACTAAAAATACAAAA

Sequence 295

AGGTACTTTTTTTTTTTTTTTTTTTTTTTTAGGGGAGACAGGGTTTCACCATGTTG  
CCCAGGCTGGTCTTGAACCCCTGATCTCAAGTGATTCGCTGCCTCAAACCTCCCANAGTG  
CTGGGATTACAGGCATGANCCACCGTGACTGGCCAGTATNTTTATTTTAAAGATGANACA  
AGTAACCTTGCTCAGGATTGCTCACGGAGTAAGTAGGGAATGTGGGATTTGAATTCAGGCA  
GTCTGATTCCAGANTCATTCTCTCTTGCTCTGTATGACTGTGTGTTCTGTGACCAATAAA  
TACACACCCCCAAGTTGGAGGAAAGGAATATCATTTCCAAGNTGAACCTACCC

Sequence 296

CCGGGCAGGTACTAGGTGCAACTGGGACAATGCTGTGAATTTTCATGAGGAGCTTTGATG  
GTAATGTAATGGGGAGAAAAAAGATGTTATTTTAAAGCATGCTGAAATTGTTGAAAT  
AGTGGGAAAAAAGCAAACAATAAACTGGCAAAACCAAATAAGACTACTATACAACCAT  
TTAAAGAATGAAGTCACAATATTGATGACATTGGAAGGAGCTCCAAGATTTAGGTGGTG  
GAAGAGGGGAAGGCCAAGTTTCAGAAAATGTGCACAATATGATACCACTTATGTTAAAAA  
CAAAGTAAAACTACAAAACTGAAAAGGCTTGGAATGGTTACCTCT

Sequence 297

CCGGGCAGGTACTAATTTTACAAAATATGGAGGCCTTTCCTAGAATAACAAAATCATTAT  
AGGTTTTTAGTGGCAGGTTTTTTGTTGTTTGGCATGGTGTTCCTTGGCATAATGATC  
AATTTCTTGATCAGGAAACCCAGTTCTAACATTTCTAAAATTGTTTTGTTAGTGTTC

Table 2

TAGGAGTATTTGGAAGTCAAATGTGTAAGCGACTTCTGTCAGGTTGACTTAAAAGTAGTC  
ACCTCCTATAATAGCGCTGTTTCAGGTGGTTTCTCCTGGACACCTGGACATTTCCCAGG  
TGTTGTCCCTCTTACTCTTCAACCTGCAACCTAATTCTACAAGCTTTGCC

Sequence 298

CCGGGCAGGTACCCTATACCTTATCCCCTCCACCTCTTGAGCCTGGCCTTTGTGTAGCA  
AATGTTGCTTAAGGGGCAGTGGCTTCTCCCTTCTTCTGCCTTGACCCTGCCATTTATAG  
AGTGACCTGCCTATGTATTCTTGATTTTTGATTCTGATAAAGCACTTGACATTTTAAAC  
ATTCTTTTTTTTTTTTTTTTTCTTTTTGANACGGAGTGTGCTCTCTCGCCAGGCTGGAGT  
GCTGTGGCGTGATCTTGGCTCACTGCAGCCTCCGCCTCCCGGGTTCAAGTGATTCTCCTG  
CGTCGGCTCCCGAGTAGCTGGGACTACAGGTGCACACCACCATGCCCGGCTAATT

Sequence 299

CCGGGCAGGTACTTCTCTACTTTCTGATAAGCTTTAAAAGAAAAAACTAACTAAATA  
TTTCAAATCAATGGACTTCAAGTAATCCAAGAGAATTTGGAAAACATTTCTCTAAAAAC  
TAATCCAGAACACAAGGTGTCAGTTTGGAAATAACGGAAGCATATTTCTTTTTAAAAATC  
TAAACATTTTAAAGACAAAAATTCAAGTTAGCATCCAGTGATTAAGTCTGGAAGTGGC  
TAGCCAAAAACAATTTCCGGCACCTAAACATAAACTGTCAGTTTCTCTGCTTGGAGA  
CAAAACATACAAAAGCAAACATTCAGTGTTATATTTTCTAGACATGAAAGA

Sequence 300

CACACTAGCTGATAAGACACTGTTGCCCGTAATGTCTATTTATTGGATCACNCAATTTAT  
AAGTCCCACATTTCTATGCCACATAGCTCTACACAGCTGCAAAAATATACCATANCTTGC  
AGGTNATCATTGGTTTGATAAAAGATATTGAGTCGCTCATCTTGTGAAAGTGATCTTTGA  
TATAAGAGGAGCATNAGCGGGGAAGCTCACATGTCCCGTGGCTCACACACCANAAGGNAT  
TTGTGTCTTGTCAATTGTCTGTCTGGCAGTCCATGGCAATGGCTTTTTCAGAGAGGCCTGT  
TTTGNNGTTAACTGNGTGTACCTCNGCCGAG

Sequence 301

CAACAAGATTGAGAATCCGGCAGAGCTGAACCAAGTGACAGATTGCAAGGTGGACTATTT  
GGTGGCACGACCCTGGTTGTGTTTGCCACTGCTGAGCTTTCCTTGATTTCTGCTCATTTT  
CAGATCTGGTTCTCCCATGTTCTTGCTGATTCTGAGAGCTGCCCAACCTACTTCAATAAA  
TTCTTTTCTGCATAAGACAGCCAGAGTCAGTTTCTTGTTACAGACAAGACTTCCAACCT  
CATAGTCACCCAAAAATATACCCATCCTAACTCCCGCTGTAATAATTAGCCACATTCATTT  
GTTTAAATAAGCAAAGATCACTCAAAGTTCCTGAAAACCTCATTATTTAATGACTGTGTC  
TATCAATACCAAACCTTCCTAATTCAGAAGGACAAACAAAAGAACAAGAAATAACAAATA  
CNATCAAAAGGTTAGGTCANAAGTGCCGGATTTNGAAAGAATANATGAAATATGCATTTT  
CATTTTCAGNATTTTTATTTATTTTTTT

Sequence 302

GGTGGCGGCCGAGGTACNNTTTTCTTTGTTTATTTCAAGAGGGTAAATTGGGCAATCTAC  
ACAAGTTTGGGGTCTTGCAATCAATCAAGACCCGAAGGGAGTAGCGGTTTCTCAGTTTT  
ATTACTCCTGTAAATCCTTCTTCTAGTTTATTTCTGGTCTTGCAAGAAATTTTTCTCTAC  
CAGCTGCATTGGACATGGTGAAGTTTTTTGTAACTTTTGAAGATTTTCAGTTTTCTGCA  
TTAAATAATACTTTGGAGTATATACAATTTTTTTGTTCTACATCATATATCCACACTGCA  
CATAGATATTTTCTGGCAGAACAATATCCATAAAAAATCTTAAGCTTCTTTAGTTAGAA  
TACCATAACCTTCATATGCTACATGGTAACATTACCCGCGTACCT

Sequence 303

AGGTACCTCCGCATCCCTTTCTCCCAACTGGCTTGAGTGGCTTCAAGCTCTAGCACTG  
CCTAACAAACAAACAAACACCTNAGTGACTTGATTTCCCCCAGAAAAATATCTATTA  
ATTATTTCCCAATGGTCTCCACCTCGGCATCAGGGCACAAGGTGTAGGCACATGCTCTGA  
TCTTGACCTAGGAAACCGTCATTATCAAGGGCATCCCTAGTCCACTGTGCTCCCCGGT  
AAGTACCTGCCCG

Sequence 304

Table 2

AGGTACTTTAGCTACTCGAACAGCATGCAGACAGGGTAAGAATCACAGAACCTGGCCGAA  
TACACAGCTCATTAGCATCAACCACAAGGTGGCGCTGCTTCAATGCTGATTCAGATGCA  
CAGCCCTGCTAGAGACGTTTCTCCACCATCAAGGCTACATTTGCTTGTGCTTTCCAGG  
CCGGCCAAAAATGCTTTCTCCTTAAGGTTTCAGGTAATACACATATGGCTAACAGTCTAT  
ATTGAGAAAGTAAACCACTGAGGCACAGCAACTCCCTACCCCATCTTAGGACAGACTCT  
GACTGCACCTGAGAGGACTTATCTCAGCCTCCCTTAGTTAACAAGGCAACAAAGTGGGGC  
AGAAAGG

Sequence 305

AGGTACTCACATGCTGAGGGTAAGAGGCAGAATTTCTTTTGCTTGTAAGTAACAGGATCT  
TTCCAGAGCCTGGGTCTGAAGACCCAGGTGTAGATGGAACCTCAGTTATGACTGGATC  
CGTAGTTCAAAGGATGCCACTCCCCGCGTACCTGCCCCG

Sequence 306

AGGTACAGTCCCCCTGACTGTTGACGACNGAGTCCTGTTTGTTGGACCCGCCACCTGGGTT  
TTCTTCTTGGCATGTGTAGTCCGTGGGTGGGATGGCTGGAGCATCACTGGCTATAACCT  
GTTTCCAGAGCAAGCCTGTCCAGGACAAGAACTGTGTGTTTTTTTATGGGAACACANA  
TTTNCAGGAACAAGCCTGCANCTTCTCTCGCANGTCANAGTGATTTGTCCAATANCAGTG  
GCTTCAACCAGGTCAAATCACGGATCTGANAG

Sequence 307

CCGGGCAGGTACGCGGGGACACATTAGAGGTGAGCCCAGAGCGGGTAAAGTGGACTGGG  
GAGAACTTCGAGGATGTTTCATGTCCAGGAGCAGCCCCACGCCCTGTATGGTCGGTGTCT  
AGAGCCTCACAGCAACTAAGACCAACCCAGCTCTCAGAAGAAGGAATGTCAAATGTCTAT  
GTTCAATTTTACATTCAGTGCCTGGAATCTTTTCTTCACAATTGAAATGAAATGTGCTGA  
AGGAGGTGAATCCATGCATTAATCTTCAGCTCACAAAGGAAATACTACATAAGAAGCAAG  
ACCACAGACTCAAGACGGACATAATTGGATTTTTTTTGGCCATGGCCTAGAAAG

Sequence 308

AGGTACCTGTCTCATTCTGGCAACTTGTACATTTCTCAATCCAAACAATATCTTTAAGG  
TATTAAACCCTATGTTTTTGGCTGAAGAACTGACCTCAGAAATGACAAGCAATGTATCT  
AAAGAGCAGTAAGTAGGCCGGGTGCAGTGGCTCACGCCTGTAATCCCAGCACTTTGGAAG  
GCTGAAGCGGACAGATCACCTGAGGTGCGGAGTTTCGAGACCAGCCTGACCAACATGCAGA  
AACCCCATCTCTACTAAAAATACAAAATTAGCTAGGTGTGGTGGCAGGCACCTGCAGTCT  
CAGCTACTCAGGAACCTGAAGTAGGAGAATTGCTTGAACTGGGAGGCGGAGGTTGCAAT  
GAGCTGAGATCACGCCACTGCACCTCCAGTCTGGGCGACAGAGCAAGACTCTGTCTCAAAA  
AAAAAACAAAAACAAAAACAAAAACAAAAACAAAAACAAAAACGGTAAGTAGCAAATCT  
GAGATTTGAATTGAGAATTGACTCTAAAAGCCCATGCTGCTTCTAAACAGAACCTTCTG  
CACCTTCTCTATCCCTAATACTTCTTTTCCACC

Sequence 309

CCGGGCAGGTACGCGGGGACGTTAAGAACTGGACTTACAAGATGGATAGGACCTGGTGGC  
AGCTGTCTTGAGGAAGCCAGAGCCTGGAGAGACAGATCTCATGTTATAGCAGAGTACCT

Sequence 310

AGGTACGCGGGGGAATGGCTTGTGCCTTACCCCATCTGATCGGTCACTGATGCAGGAA  
ACAGGGAATGGCGTGCCTTACCCCATCTGATCAGTCACTGATGCAGGAAACAGGGAATG  
GCTTGTGCCTTACCCCATCTGATCAGTCACTGATGCAGGTAACAGGGAATGGCGTGCCTTACCCCATTC  
TACCCCATCTGATCAGTCACTGATGCAGGTAACAGGGAATGGCGTGCCTTACCCCATTC  
TGATCAGTCACTGATGCAGGTAACAGGGAATGGCGTGCCTTACCCCATCTGATCAGTCA  
CTGATGCAGGTAACGGAATGGCGTGCCTTAGGCAAGGCTTTGCTTTCAGATGAAGCAGG  
GCTTAAATTTGAATGACATGAGGGCTATTTTATGCCTTCTGGGACTCCAGATGGCGCCT  
CATAGGATCTCACACAAGTGAATCATTTATATCATGGGTTTCGTATGTTTTTAGCATGTT  
AACAGATATGCAAAGTGAATGGAGAATCAATGAAAAGAAAAATAATGTATGAATGGAAA

Table 2

TATTAAGAAAGG

Sequence 311

CCGGGCAGGTACAGATCCCAAGGCCATTGTTGCGATAGACAGTGTGCACACCTGGTCAGT  
CAAACAGCCTTGCCCGTGCCTGTGCCTCTCCTGTGGGGCCTCTGAGCCTGGACTCTTCAC  
CCTAGCTCAACCACTCCTCTGTCTTTTTCTTCACTGCTGTTTGCTTATTTCAAAGGGAGA  
AAATCTGTTGGTCACAGTGGTCACCACCGTATCCACTGGCCAGTCTTTCTATGCCACCTG  
CAGTCTGCTGGCTGATTGTCTTGAGTTACATATCCACTCCAAGCAAACATACACTCCAA  
TCACCCATGGCCGAGATGTTGGGTTCACACTTGGCACTAGTGAGATTTCTTATGGGAGTG  
GAT

Sequence 312

AGGTAAGTGCACAAATTTGCTATCTGGTAACATATGAATGGTTTACTCTCAACAAGTCTA  
CCGAGACATATTTCTGTCTTTGTTAAGACACTTTAAGAGAAGAGTCTAGTAATTACACAT  
GTAATGACTTTGCAGTGGCTCACGCCTGCAATCCCAGCACTTTGGGAGGCTGAGGGGCGG  
TGGATCATGAGGTCAAGAGATCGAGACCATCCTGGTCAACATGGTGAAACCCCGTCTCTA  
CTAAAAATACAAAAAGTAGCTGGGTGTGGTGGTTCATGCCTGTAAATCCCAGCTAGTTTGT  
AGGCTGAGGCAGGAGAACTGCTTGAACCTGGGAGGCAGAGGTTGCAGTGAGCCGAGATCG  
TG

Sequence 313

CCGGGCAGGTACGCGGGGAGAGCTCAGGACCTCTGAGAAGAATGGAGCCCTCCTGGCTTC  
AGGAACCTCATGGCTCACCCCTTCTTGCTGCTGATCCTCCTCTGCATGTCTCTGCTGCTGT  
TTCAGGTAATCAGGTTGTGCCAGAGGAGGAGATGGACGATCAGAGCCATGCACCTGTTTC  
CTGCACCCCTGCGCACTGGTCTATGGCCACAAGGAGTCTTACCCAGTAAAAGAGTTTG  
AGGTGTATCCTGAGCTGATGGAAAAATACCTATGTGCCGTTCCCTTGTTGGGTTGGACCT  
TTACGATGTTCTTCAATATCCATGACCCAGACTATGTCAAGATTCTCCTGAAAAGACAAG  
GTAAA

Sequence 314

AGGTAAGTGCATAACTAAAATTGACTTTTTTTAAAGCCAGAACTATGTCACAGTTGGTGC  
TTATAATTGTTTCAAAATTATACCGACTTTATTTAATTCATGCAACGCATTTCCACATA  
GAAATGGAATAGCAAATCCTACTCAATAGCAAACAATAAAATAAAATAAAATAAAGTAT  
GTAAGCTTTTTCTTCTTTAGACACTGTCCCCAGAATGGAAAAGTTATAAAGAAAGGTA  
GGTAAAAATCCTGCAGCTTACACATTTTTCCACTGAGAAGGCAAAATCCTTACTCCTCCAG  
AACTAAAATATTAGACCCCAACAGTGTAGGGGGAAGAGGGGTAGGAAGTTGAAAAAA  
GAAAAAA

Sequence 315

CCGCGGNGGCGGCGGACGCTAGATTNTTTGAGNGGCAAAANAANCCNCTCACATCATGAG  
TGAGTCTTCTAACTCGGACAATGCNTTCAACAAATTCTAAGACCAAATCCCGGAGGCACT  
GGCTCCAAAAAAGGACCTCGGCGGCTCTAGAACTAGT

Sequence 316

CCGGGCAGGTCCGGGCAGGTACTTTGTTGGGAATTAAGGATGATGATGCAGATCTGAGTC  
AGGCTCTTTGTCTGGCCATCTCCGTGTGAGAGATCCTTCAAGCGAATCAGCTACAAGGGG  
AAGGAGTCCGGTTCTTTGTGGTGGATTGCCGTCTGCANAACAAATATAATGCTGGGCATT  
TATCAACTGCTTTCCACTTAGATTGAGACCTGATGCTTCAGAATCCATCTGAGTTTGCAC  
AGTCAGTAAATCCTTGCTGGAAGCACAGAAGCAGTCCATTGAGTCTGGCTCCATAGCTG  
GTGGGGAGCACCTCTGTTTTATGGGCAGTGGCAGGAGGAAGAAANACATGTATATGAACA  
TGGTCCT

Sequence 317

AGGTACAATGCCCTTGAGGGGAGAGGGGCTTCATGGAAAATGGTTGCCATGATAGGATTT  
GGGGAGAACCTCTATGTTTGAGGGAGTTTGGGTGAGGACCTATCCGTGGAAGCAAAACT  
AGTGCCCAATATTCAAACATAGTTTGGTGAAAGATCACCTATGATTCTGAACGAAATA



Table 2

GTGTAGATAAAGACATCTGGAAGTTTTCTATTGAAAAAAGAAAGTGTGAAATCAGATA  
CTTTTGTTTTAAAGGCTCTCTTTCTTAAATTTCTTAACCTGGCCAAAATGTCAATGGTAC  
CTGCCCG

Sequence 318

CCGGGCAGGTACCATCGCCCTTTCTTATCTATTGCAAACCCAGAGTAGGGAGACAGGGA  
ACCAGCAATGTCAGAAGGAGCCGATATTTGCATGGAGCTAAGGCTTCTGCTCATCATTT  
CTCCTCTAGGAAGCAGGAAGCCATTGAAATCCATCCCTAATGTATCCCAAATGTCCACTT  
GCTGAGGGCAGGATTGCACAAGCAACAATCTTTGCTCATGAAGCTTAGGGAGCACTGTC  
CCAGGGTATCAATTGGCCCAAAGCTGGTCTCTTCTACAGACCATGCGGCAAATCAGAAC  
ATAAGAGGACTTGAGGCCCACAGCCCTGAGTTTCAATTCAGTTCTGTATTTAGGTCTG  
TGTTTCGTAATTAGTATCATAATTAAGTGAAGGTTATTTAGATTTATTGAGCCTCTTTT  
TTGTAAATGGACTATTCATATACAACCTGCAGAAAAACCAATCCCCCAAAAAACCTT  
GCTACTTAATACAAAAACCTAAGTGCAGGCACTTCTACTTTGCGTGGTTGACAGAATAAC  
CCATCACTATCACCACCAAAACAAACA

Sequence 319

CCGGGCAGGTACTTAGGACTATGGAGAAACAATGGAAGACATTAATTCTGCTTGTCTTGA  
TGGTAAGGGTGGGGATGAAATACAGATCGAATTTGGGGGAGCATGTTAAGGTTAGGGGA  
ATAGAGATAGCTTATTTAGAACAAGTTAGTAGAGACTGTATGATTTTCCAAATAGAGA  
AGGGTAAAAAGACATTCCATAGAGGAAGAAAATTACATGCAAAACCACAGAGACCTTAGT  
TTATAAAGAGTAAGTGGGTATGGCCGGGTGCGGTGGCTCACGCCTGTAATCCCGGCACTT  
TGAGAGGCTGAGGAGGGTTGATCATGAGGTCAGGAGATCGAGACCATCCTGGCTAACACG  
GTGAAACCCGT

Sequence 320

AGGTACACTTTAATATCCCAAAGTGGGCTTGGCAGCTCATCTGCGCAGAGATTCCAGCAT  
TCTCTTTAATACCACCGATCTGGGGTGTGTTGTTTGGTGGTGATAGTGATGGGTTAT  
TCTGTCAACCACGCAAAAGTAGAAGTGCCTGCAGTTAGGTTTTGTATTAAGTAGCAAGGG  
TTTTTTGGGGGATTTGGTTTTCTGCAGTTGTATATGAATAGTCCATTTTACAAAAAG  
AGGCTCAATAAATCTAAATAACCTTCTCAGTTAATTATGATACTAATTACNAACACAGAC  
CTAAAAACANAACCTGGAATTGAAACTCANGGCTGNGGGCCTCAAGTCTNTTAT

Sequence 321

AGGTACCTGAGGCTCTGTGCCAGTGGGGATGACGGGGGCTGATGTCTTCCCATGGGCT  
CCTATGGATTTGCCCTTCAGATGACCTGGTAGGGCTCTGAGTGACTGACTTAAAGACCTT  
CGTAACGCCAAAGTGGCAAGATTTTGAGACAGATTTGTGTCTCCTCATCCATGATTTT  
GACTTTAATCTTTTCTGAGAAGACCAGAAATCAGAGAGTTTGTCTTCTCAGCCTCTCTGT  
GCAAGGATCTGCTGAGCTCAAGCTTCCCTTTTCAAGCTCAGCTTTTAAAGTTGAGAATAA  
TAATTAAGAAAACCTCAATCTCAATTCCAACATCAAGTGTCCATGAAGCT

Sequence 322

CCGGGCAGGTACAGTAGTCACTCTTGTACAGTGGTTATTGTATCAGACGATACAGAACA  
TGTTAATCATCATAGAAAGTTCTGGACAGTGGTGCTCTAGAGTCTCAACATGTCACGTGT  
TCGGGGGATCACTGGATCTAAAGCCATTCTTATGGGAAATGTTGGCTTTCTTGAAAATA  
CACC GGAGACCAGAGAAGGTCACCATGTGGAGAAGAGGCAGCCTTCACTCTGCCAAGAAT  
GCTGGCCAGGCTTCTCTGTTTTATATCTCATCACAATGAGGGCCATTCTGGCCCTCCAAA  
ATATGGATACCAACCTTACGCACTGTCTAGAAATGGGCCACAATTAAGTGT

Sequence 323

AGGTACCAGAGTCCATGTTCTTAAACCATTAATCTACGATGCCTCTCAAGTAAATAGTCA  
ATTAGTGGTAGGTGTGAGGCTGTAGGAAAAAGAGGAGACGAAGGGACAGGAAAGCAGTCC  
TCATTGGAAAACCTAGGTTTCGACTGGCACTGTTGGACTGGGCTGCAGTTTAGGTCCTCCC  
ACTGCTGAGTTCCCTCACTTCTCCTGGTGCTTCTGGTTTCCCATTTATAAAATGCAA  
GGGAAGGATTCTATTTATGTCACAAGGTGCATCTAAGGAGTAAAAAGTCACGTCAATGTTT

Table 2

GACCAATGTTAGTCAGATCAAGATTTATTTAGATAAATTATCTGTTAGT

Sequence 324

CCGGGCAGGTACAAGCAGTAGGCTGAACTCATGTGCCAGGCAGAGGTCTGATGAACACCA  
CCGCCAGTCCACCGGCACTGGGGTCAGTGTGTTAGCGGGGATATGTGGTCTGTTCCCA  
GAGTGCAAAAAGGACAGGGAGGCCCTGTCACATGAATGCTGAGTCAAATTTATATATATA  
GAAACAAGACATTGCCTGGCAGGGAAGATGAGCCATGTTAGTGTGGGCTGTGCCACCACT  
TCACCATTGCACTGATTACATTGTCGCACAGATAGCTACTGCCATAATCCTGTCTCCTG  
GCTTAAGTAAGTCAGAAATCACTGCTTTATAAATGAATTCCTAAGGTGGTTAGCAAT

Sequence 325

CCGGGCAGGTACTAAGTTGAAGTAAAGCTCACCCCTTACTTCCCTACTTGAAAGTTCTAC  
TCTGAGCCTTGACTCTTAGCCACAGTGAGGCATGTTGAAGGTTCCCTGCTGGTTTATTCTT  
TTTTTTTTTTTTTAGACAGAGTCTCACTCTGTTGCCAGGCTGGAGTGCAGTGGCAGC  
ATCTCGGTTCACTGCAAGCTCCGCCTCCCGGGTTTATGCCATTCTCCTGCCTCAGCCTCC  
CAAGTGGCTGGGACTGCAGGCACCCGCCACACGCCTGGCTAATTTTTGTATTTTAGT  
AGAGACAGGATTTACCATGTTAGCCAGGATGGTCTCGATCTCCTGACCTCGTGA

Sequence 326

AGGTACCTACCCAGTGTTCTCCTGAGATGGCCTATGGTTGGATGGTTGAGCACAAACA  
CAGGCACCGTCACAAACACAGAGAACGCCGTTCTTCTGAACAACCCAGGTTTCTATGGA  
CACTGGCTCTTCTCGATCTGTCTGGAATCTTTGAAGCGCTATAGATTGGAAAGGATGC  
TGTTGGAGAGCGATATAAGCATAAGGAAAAGCACCGTTGTACATGTCCTGCCCTCATCT  
CTCTCCTTCAAAAAGCTTAATAAACAGAGAGGAACAGTGGGTCCACCGAGAGCCTTCAGA  
ATCTAGTCCATTGGCCTTGGGATTGCAGACACCTTTACAGATTGACTGTT

Sequence 327

AGGTACTACAAAGATCCTGGGGAGCCTGTAGGTGACACGTATGATTTGCTGCAAGAAAT  
TCACAATTAATAACAATTCTAGGTCTATATGGTTGATTTGTGATAAAAGTCACCTATGGC  
AAAAACAAGAGAGAAGTTGTAGGGAGTAGTTTGGGAAGTGTAAGGTGAGCAAAGGCAGG  
AATCTTCTGACACACAGGAATGTAAATTGGGGGAAGAAAAATATTCCAAATTTTCTAGTC  
ATTGAGGAACTGCCAATAACATTAATTATGAATCATCTATGTGAGCTGTAGAATGGTCTT  
TTCTGTGTTTGTTCATCCATTCAATAAATACATACTG

Sequence 328

AGGTACGGGGGGACGTTCAAGAGGTGAGCCCAGAGGGGGTAAAGTGGACTGGGGAGAACTT  
CGGAGGATGTTTATGTCCAGGAGCAGCCCCACGCCCTGTATGGTCGGTGTCTAGAGCCTC  
ACAGCAACTAAGACCAACCCAGCTCTCAGAAGAAGGAATGTCAAATGTCATGTTCAATT  
TTACATTCAAGTGCCTGGAATCTTTTCTTCACAATTGAAATGAAATGTGCTGAAGGAGGTG  
AATCCATGCATTAATCTTCAGCTCACAAAGGAAATACTACATAAGAAGCAAGACCACAGA  
CTCAAGACGGACATAATTGGATTTTTTTGCCATGGCCTGGAAAGAAAGGTAC

Sequence 329

CCGGGCAGGTACGCGGGTGCCCCGGCCTCAATTATTTTCTTACACTAGTTCCAGAACGTT  
ATATGTATATTATATGTGCTCATACATTTTACCTTTCTAGCCTCATTTAAAAATGTTT  
CAGCTGGCTCACACCTGTAATCCAGTTACTCAGGAGGCTGAAGCAGGATAATCGCCTGA  
ACCCAGGAGGCGGAGGTGGCAGTGAGCTCAGATCACACCACTGCACTCCAGCCTGGGTGA  
CAGAGCAAGGCTCTGTCTCAAAAAAAAAAAAAAAAAAAAAAAAAAATTAGTACCT

Sequence 330

AGGTACTCATGCTGAGGGTAAGAGGCAGAATTTCTTTTCTTGTGTAAGTAACAGGATCT  
TTTCCAGAGCCCGGGTCTGAAGACCCCAAGGTGTAGATGGAACCTCAGTTATGACTGGATC  
CGTGAGTTCAAAGGATGCCACTCCCCGCGTACCTGCCCG

Sequence 331

AGGCATGCTGTCTAGCACATCACAGACCCTCAATGAATACTATAGGTTGAATTAATGTA  
GGACCTAAGGGAGTAAAAAGAACAGCGTCCTCCAGCATTTATGCAGCTGGAGGCCAGGAA

Table 2

TCTTCCCTCTGGCTTTGCACTACAGTAAAGATATTTACTTATTTTTTAAACAAAGTTTTA  
TTTTAGGCTCANGAGAATACATGTGCATGTTTCTTNTATAGGN

Sequence 332

GTACNCGGGGACACATTGAGAGGTGAGCCCAGAGCGGGTAAAGTGGACTGGGGAGAACTT  
CGGAGGATGTTTCATGTCCAGGAGCAGCCCCACGCCCTGTATGGTCGGTGTCTAGAGCCTC  
GCAGCAACTAAGACCAACCCAGCTCTCAGAAGAAGGAATGTCAAAATGTCATGTTCAATT  
TTACATTCAGTGCCTGGAATCTTTCTTCACAATTGAAATGAAATGTGCTGAAGGAGGTG  
AATCCATGCATTAATCTTCAGCTCACAAAGGAAATACTACATAAGAAGCAAGACCACAGA  
CTCAAGACGGACATAATTGGATTTTTTGGCATGGCCTGGAAAG

Sequence 333

TNGGGCAATTGGAGCCTCCCCGCGGTGGCGGCCGAGGACACACAGTTAACCACAAAACAG  
GCCTCTCTGAAAAAGCCATTGCCATGGACTGCCAGACAGACAATGACAAGACACAAATAC  
CTTCTGGTGTGTGAGCCACGGGACATGTGAGCTTCCCCGCTGATGCTCCTCTTATATCAA  
AGATCACTTTCACAAGATGAGCGACTCAATATCTTTATCAAACCAATGATCACCTGCAA  
GCTATGGTATATTTTTGCAGCTGTGTAGAGCTATGTGGCATGAGAATGTGGGACTTATAA  
ATTGCTGATCCAATAAATAGACATTATGGGCAACAGTGTCTTATCAGCTAGTGTGTACCT  
GCCCC

Sequence 334

GCNAATTGGAGCCTCCCCGCGGTGGCGGCCGCCGCGGCAGGTACTTAAGTGTCCCACGCA  
ATGGGTTGGGCCAGGGAAAGCTCAGTGGTTTGGGTCTTACACTCAGCCTTGGGGGAGGGG  
AGGGGACTGGTGGGGAGAGGTGAAGCTGGGTAGAGCTGGACTGGGCAAGACAGCCATTG  
GTCCCCCAGTAGCAGGCACAAGCACTGGCTCTGACAGGGATCTAGGGACAGTTGCCAAAC  
CCTGTAGAAATGCCTAGGCAAAGATGAGAGCAACTGACATTGCATCAATGTCCCAGCACA  
GGAAGGCAAGGGCAAACCCATTGTTAAACCAGGCAAACAGTATGGGACCTGCCTCTCTC  
TCTCTCTCCAGAACCATCAGGACTC

Sequence 335

CCGGGCAGGTACTCTGCGTTGTTACCACTGCTTTCCCGCTACATGCTGATATAGGGACA  
GCTTAGAGCATTAGGGAGCTGCTAAGAGAGAAGAGGGCTGGAATAGCAAGCCAAGAGTTA  
CGTGGGCTCAGAGGGAGGAGGAAGCCCTCCAGGTGGCAGTCTGCGAAATGAGGAAAGGT  
CCCATAGAGAAGATGTCATTTGAGCAGATCTGTTTGTATAGACAGTATTTAGATGCAGCC  
TAAACGAAGAGAACTGCATGGGCAGAGACTCTGAGGCAGGAAAGTACCT

Sequence 336

CCGGGCAGGTACTTTTAGTAGAGACAGGGTTTACCATGTTGGCCAGGCTGGTCTCAAAC  
TCCTGACTTCAAGTGATCCGCCACCTCGACCTCCCAAAGTGCTGGGATTACAGGCATGA  
GCCACCGCAGCTGGCCAAAGGCAGAGCTTCTTATAAGGTGAGAGGAGTAAAAGAGGAGCAT  
GTGTAGGTTGAAAAGGTGCACAGGTGAGTGTGTTCACTGACACACATCTTATCCCCTGAA  
AAATATTTAAATGTATATGAATACATCCAGGAAAAAATAAATCAACTAATCAACTCTG  
AAAATCCTTCATCTCTACTTAAAAATGACACCACGCTGACTCTACATAAGATTAAAACAA  
AAT

Sequence 337

AGGTACTGGAGGTCCGAGCTACCACAGAAGACAACAAAAATCAATATAAGGTATAGGAAG  
ATTGAAAAGAAAGAAAACAAACCACCTAGGCTGAAATCCCAAACAACTGGACACGCAAA  
TTATTAAAGGTGATTTTATAAATGTTATGTCATTTAAGACAGCCATATAAAAGGAATCAT  
TATTCCCATTCTCTATGAGGAAATAGAGGCTCAGAAAGGTTTTGAGCAACTTGCCTGA  
AGTTGAAGTCCCCCAGCATATTAAGTGCTGAAGCCAGAATTCAAACCAATTGATAATTT  
CAGTGCTCTTACCCTAGACCACATGACCTCCCCTCAGTTAATATTCACCCGTTTTGCCA  
GTG

Sequence 338

AGGTACCTCCGCATCCCTTTCTCTCCCAACTGGCTTGAGTGGCTTCAAGCTCTAGCACTG

Table 2

CCTAACAAACAAACAAACACCTCAGTGACTTGTGATTTCCCCCAGAAAAATATCTATTA  
ATTATTTCCCAATGGTCTCCACCTCGGCATCAGGGCACAAGGTGTAGGCACATGCTCTGA  
TCTTGACCTAGGAAACCGTCATTATCAAGGGCATCCCCTAGTCCACTGTGCTCCCCGGT  
AAGTACCTGCCCC

Sequence 339

AGGTACACAGGTAACCACATTTAGATGGACTGGGATGTTGCCACACATACAAGCATTGAT  
AACTGACTTCTCATTACCTGAATACATTCTTCTGTCAGAGCAACAGACTCAGCTATGCTT  
CTGGCAAAATTGTTCTTAATTCTCTATTGATTAATTTATTCGGTAAGTATTTATTGGGTA  
TTTTCTGTCTGAAAAGTGCGATTCCAGGTGCTTATGTGTCTCTGTGTGTTGTTATA  
TAAATACTTATAATACTGTATCCATACTCTTGAAGGCTTAGTTGGGAAGGCAAGGCATG  
CAATAAGGAACACAGAATTTTAGTCATTCCACAACCATCTGTTGAATGGC

Sequence 340

AGGTACTCTAAGACTCCTAATCCAGGCCAATTCCTAGTGACCAATAACAAAAAGCCCAA  
TTACCTTCTTCAACTACACTTAAATCATAAAGCTTCAAAGATGCAATGACCTAATACAA  
CCACCTTCCAGTTTGAAGCACTGTGCTCCATGCAATATTCTGCGATGGTCAGTCTAG  
TATAAAGGACTTCCTGGAGGGTCTGCTCCAAATACTAATGCAGAGGTCACAAATTGGTG  
GCCCTCAGGCCACATTTGGCCATTAAAGTATTGTTTTATTGCTTCATAGTCTTTAAA  
AAAAAAGTCAATTAGTCATCAACATTTACAGAATAAAGATGTCACATAAAAAATTTGTGT  
ACTAGCT

Sequence 341

AGGTACTACAATTAACCGCAGCCCATCTCCAGATATTCAGACCATTTAATCTCCAAATA  
GCAGGCATTTAACACCTCATCTGTGACCTGGGGTTGACAGAACCACCTAGGACTCAGGA  
CAGATAGCAGGAAAAGAGGTAACACTTAGGTAACACCTTCAGCTTGCAAAATTGTATCAC  
TGTTTCATCAAAGGGAAACACACACATGTAGCCATGAAGTTTGAAGGCATCCTGGACTAC  
CTCTGCTGTGGAAGAAGAGGCTTGCCAGGGTTTTCAGAACCCGAATTTGTGCTGTGGCTC  
TGTGTTGTGATTCTAGAGGGTTCTATAGTCCTAGCATCCCAGGGCCTGAGGCTTACTAGA  
CATTC

Sequence 342

AGGTACTGAGCTGAGCCATGCCAGAGAGCCTTTTATTGCAAGTTTCTCTGGACTGAGGAA  
GAAATTTCTCTGAGCACTCTGAGAAGTAATCTTATATATCAAAATTATATAAGGAAGCA  
CACGGCTAAGAAGATGAAGACCGTGCTGGGCCCAAGCCAGCGTGCTCCCATGTGATAATTC  
TCAACAAGTCTTTGGGCTCTTTCTTGATCACATCCCTGTAGGGGAGCTGAATAAGGAGA  
GAAGTGACATTCCTACACTGCTTCCTGGTTTATGAAATGTTCTTACCTACCCTAGATCTT  
CACAACAATCCAGGAAAGGAAACGGGCATTACTGCATTGTTTTAAAGGTATGGATACTAG

Sequence 343

AGGTACACAAGGGTTGGCCTGAGTCCCTGTGTTGTGAAAGTTGGCCTACAAAATGAGTCC  
ACAGGGACTGTCATGGTTTTGAGTTTATGGAGGTTTGTCCATTGCTGGAGTCTACTGGG  
ATGAGCCTTGGTCTGCTGAGCAGGTATGGAACCTGAGTCTGGGGAAGTGTGGGGCCATAG  
AGGTCAGACTGAAGGTTAGGGTTATGGGGACTAGCCTAGTACCTGCCCC

Sequence 344

AGGTACCTTAAGAAATTGCTGACACATTTATTACAATTTCAAGGCTACAACCTCAAATCCCA  
GGAACACAGGATTCCAGTGACCTACATAATTTGGGCTCAAATACCTTCAAGGCATTCCGA  
AGAGACAGAGAACACCAGAACAAGGGAGAATTGGAGTGGAGGTGGATGCTGAAATTCAG  
TNTAAAAATCTACTCTGGCTGAGGAATAAGACAAAATGTAAGTGATTTAGGAAAAATATC  
CCAGACAAATGAGAGGTGAACCTTTGGAAGGGGTATAAATCAAGATAATAATTTCCATAT  
TTGCTGNTTCTTTTACTTTTTGCAGAAGAAATGCAATATAGTCGCTACTCAGGAATTTTG  
ACTGAG

Sequence 345

CCGGGCAGGTACGCGGGACCCACTGTGCCAGCCCTTGAATTTCTCCTAGCCCTTCAGTT

Table 2

CCTCAAGCTTCATGCCTCCCAAGGTTGCACCCCCCATGGCCTGTCCTGCAGTCCTGGGGC  
CCTTCTCTGAGGGGATGAAGGGGGCACTTCCCTGAACAGAGAGAAAGGGAGACCCACACC  
ACTTGGATTAACTCCCTGGGCCCCAGCTGGCTCTGCAACTTGGCCAAGAAGCCCTATCT  
CCTAGGGCCTCAGTGTCTTAGTCCGTAAATGGTTCTGAACTTTTAAATACAAACACT  
CTTTGTAGAGTCGAAACACTTTGCAGACCTGCACTCTGTGGCAGTACCTCGGCCGCTCT  
AGAACTAGTG

Sequence 346

CCGGGCAGGTACTATCCCATTTTCTTTGCCATGCACCTGTCTTCTTTCAGGATTGAT  
CACAAAATCAAACCATTCCTACCAGCCAGAGGTGGGCACATGACCCAGGTGACACCAGT  
CACAGTTCTGATTCCCGGCCACAGTGCTTGATGGGGGAATGAGCATATATCAAACCAGG  
ACAGTCCAAGTCCCTCCGGGGACTTTGCTGCCACAGTTGACAGGGGGAGGTATTTGCATA  
ACTTCACCACACACAGCTAAGCTGGTGATCCTGCTGCTTGGCAGCATCTTCCAGCGTAC  
CTCGGCCGCTCTAGAACTAGTGGA

Sequence 347

GGGGCCATTGAGACTGCCATGGAAGACTTGAAAGGTACGCTAGCTGAGACTTCTGGAGAG  
ACCATTCAGGCTTCTGGCTCTTGACAAAGATAGACCACTGGAACAATGAGAAGGAGAGA  
ATTCTACTGGTCACAGACAAGACTCTCTTGATCTGCAATACGACTTCATCATGCTGAGT  
TGTGTGCAGCTGCAGCGGATTCTCTGAGCGCTGTCTATCGCATCTGCCTGGGCAAGTTC  
ACCTTCCCTGGGATGTCCCTGGACAAGAGACAAGGAGAAGGCCCTTAGGATCTACTGGGGG  
AGTCCGGAGGAGCAGTCTCTTCTGTCCCG

Sequence 348

AGGTACCACCATGCCTGACTAATTTTTATTTTTTAGAGATGGGGTCTTGCTATGTTGCC  
CAGGCTGGTCTTGAACCTCTGGGCTTAAGCAGTCCTCCCACCTCGGCCCTCCCAAAGTGCT  
GGGATTACTAATAGGCAAGAACCACAACACCCAGCCGGCATATCTGATTTTGGTTGCAC  
GGAGGCTGCTGCTATAAACCGTGGGCACCAAGTGGCCACGAGTCATACATAATTGCTGGCC  
CCCATGGCTGGGAAGTATCTGAGGGAACCTCAGGCAAGGCCGTTTCTTTCTGGAAGCTCC  
AAGTTCTGGGTCTTCTTAATAAATCTTCTC

Sequence 349

ANGTGNAGAATCACCTGAGCTTGGGAAGTTGAGGTGCAGTGAGCTGANATCGCACTGCT  
GCATTCCANCCAGGGTGATGGGAGTGAGACCGTGTCTTAAACAAATAATAAATTTGGG  
GGTGATGTANACAGAAATAAGGACAGAGGTATGAAAAGGAATAATTATTTAGCATTTTAC  
TAGCCAGAGATTTGGGCAGTCCCAAAAANCANCTTTTCTAATCTCCCTCTCCTTTCCCAA  
AAAACTTTAAATCAGATCCNNTAGTATCCTATCATCTTTGGGTATTATACATACTACTTTT  
TGGAGGGGGGATTGNNGGAAAGCTATCGAGATCT

Sequence 350

AGGTACTATGTCCCTCTCAAGTCTGAATCTAACTTAGGGAGTAGCCAGGAGACTATGAG  
AAGGAAGTACTCCAGGGAAGAACATCCCATGCCCTTTCTGAAACACAAGTGGCAACCAT  
AAGACACCACTCTTTATCCTACCTTTTAGCAGACTATGCACAATCCCAGGAACGAGGCCA  
GAACTGATAAGCAAGTGTGGCATTGGCTCCAGCCAAGGTATGAGGATTGCGGAACCTCC  
CCATCCTTGAATTGGGCTGGGAGGGGTTTACCTGGGAGCCACAGTTTTATGGCCTGGG  
GTTATATTGCAAGTCCAAAGACAA

Sequence 351

CCGCGGTGGCGGGCCCGCCGGGCAGGTACATAGTTGCTCATTGCCTAAAAAAAATGTT  
TGCCCGTGTGAGACATCGATGCATCAATAGTGCTTAATATAATGACAGCTTCAAGCCAC  
AGTATTTTCCACATTTTTTAGTTCTATGTTCTCTTAAACTAGTCTACCTAGGCTGGG  
CGTGGTGGCTCACGCTTGTAAATCCAGTTCTCTGGGAGGCCAANATGGGCGGATCACCTG  
AGGCCAGGAGTTCAAGACCAGCCTCCCCAACATGGTGAAGCCCCATCTCTACCAAAAATA  
GAAAAATTAACCAGGCATGGTGGCGCATGCCTGCAGTCCCAGCTACCAGCAAGGCTGAAG  
CTGGATGATATCTTGAACCCGGGAGGCAGAGGATACAGTGAGCCGAGATTGCGCCACTGC

Table 2

ACTCCAGCCTAGGAGACAGATGGAGACCCTGTCTCAAAAAAAAAAAAAAANGGG

Sequence 352

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGANGTACATTATTCCTCCTAAGCTCCTGAT  
TTATTTTGCACCTAATTATTTAGAACAAAGCTTGAGGATTTCTCCTCCTCTCCAGAACC  
CTGTGACAGCTTTTTGACACTTGAAGGATATTTACACACTTGTAGGTGCGCAGTTCTG  
CTCTGAACATTGAGGCTGTGAAAAATCCTATCACTCACGGGTGGCCCTAACTCTCTCTC  
TTCACAGAAGACTCATTGAACTGAAATATTTCAAGAAATGAAATTTGACCAGAAAGGGT  
AAAATACCTGACAAAGTGGCAAATAAATGTGTGAGACTAATGGGTTGAGCAGCCACATCC  
AATGACTCANGCAGCCACACATGCAATGACAAAGCCATAGAAGGAGAATCCTACTGCCTG  
TCAGCCACTGAGCCACAGGGTGGAACTATGCCAGTAGTACCTGCCCCG

Sequence 353

CCGCGGTGGCGGCCGAGGTACTACTGGCACTGAGCCAATGTATGCTATCAAGGAAAGCTT  
TATCTGTCACTGAGCAAAAGGTGAAGTTCAATTAGGTGAGTTTATCACTTCTTTTCTTA  
CACACAACTATGAGGAGAGATCATTTCTTTCTTTCTTTTATTTATTTATTTTTTTGA  
GACAGGGTCCCACTCTGTTGCCAGGTAGAGTACCTGCCCCG

Sequence 354

CCGCGGTGGCGGCCGAGGTACTACGCCAGATGCTGTTTACACATAGAGTTTTGAGCTGT  
TTCTCAAGGAGGGGCATTGGTGGCATTGTTGGCAGAATGATTCTTTGATGGGCAGAAAGGT  
CCCACCTTCGCAGAATGTCTATCACTAACTGCAATCATTCTCGCCAATCTTTAGGGTG  
GATGGGAAGAGTAATGCCCAAATGAGAGCCCTCCAGATGTTGAGAGCAGCGGATATGAA  
GTCATACAGCCGGGTTTGGTTTTATTCCATCCATTCTCTCTGAGGACCTTAGACAAG  
TGATAATGCTCTATGCTTCAGTTTCCCCCTTGTAATGGTGGTAATCCCGCGTACCT  
GCCCCGGCGGC

Sequence 355

CCGCGGTGGCGGCCGAGGTACTACGCCAGATGCTGTTTACACATAGAGTTTTGAGCTGTT  
TCTCAAGGAGGGGCATTGGTGGCATTGTTGGCAGAATGATTCTTTGATGGGCAGAAAGGT  
CCACCTTCGCAGAATGTCTATCACTAACTGCAATCATTCTCGCCAATCTTTAGGGTG  
ATGGGAAGAGTAATGCCCAAATGAGAGCCCTCCAGATGTTGAGAGCAGCGGATATGAA  
TCATACAGCCGGGTTTGGTTTTATTCCATCCATTCTCTCTGAGGACCTTAGACAAGT  
GATAATGCTCTATGCTTCAGTTTCCCCCTTGTAATGGTGGTAATCCCGCGTACCTG  
CCCG

Sequence 356

CCGGGCAGGTACAGTGAAGCTTTGACCTGAGGAGCTCTCTGTAGGTGAAGAGTGGTTAA  
CTATGGTTCTGTGCTGGGGCCCCCACTCCTAGGACTCATCCACCCCTACCCAGA  
ACTTACTAGTACCT

Sequence 357

ANGTTGGAACCTGACCTGGGGGCCTCANCTTGCTGTGACTGTCACTGCCCATGTGTTCTT  
CCCCATGCCTCACCTTCTCTNCAAGTGCCTGAAACATCAATGAACCTTGTGCTTTTGT  
CGTGTGATCTGTAACACCCCATCCTTTACCANACACCCCTGCATCCAACAACGCTATGAA  
CAGANTTCTNCANCAACCTGAATTCTTTGACAAAAAGGTGGTTTATAATGTTTGTCTCAA  
AAGAAACATAAACATGTTGNCCAAATGAAAAATCAATCTTTNAGTNCTGAGACTCTGG  
CTGTGGAATCGAAATANCATNTAATGAATAGCACCATAATTAATTNTAGCACCATTCTT  
TACCTANAACTGATTTATTTACAAAAATAAGCAN'TTGGTAAAAAA

Sequence 358

GGAGCTCCCCGCGGTGGGCGGCCGCCCGGGCAGGTACACATCTGCTCCTGGGCAGACCTT  
ACAAGTATCTCAAACATATCTCCATGAGAGGTAGATAAGCTACGTAAACAAGGGAAGC  
CAAGATAACAGGGAAGACAGGAGACTATCTGCCTTCTAAAAACACTCAAATCTTTCTA  
TAAGCACTGCTGATTTAATCCATTACACCACGAGCTGCCAGTTTACAATCTCTGCTA  
CACAAGCCCTCCATTGAGTTTAAAGACAACCGTCAAAATATCTCTCCAGTTTCTCCATT

Table 2

ACCTGACTGTTACCATAGAGAATACAGGTATTCCCACTCTGGCCAGCTGTGTGCAGTGTT  
TTCTCCTATCAGAATCCAAACCACCTACCAGTCCCCGTACCT

Sequence 359

ATTGGAGCTCCACCCGCGGTGGGCGGCCGAGGTACCGGANGGGATGCAGCAGTTTGCTCC  
CTGTTCTACTTGACCTTCCTTTAAATATTTGAAACCAGATATCAGCTCACTAATCCACTT  
TCCCAGCTTGCTCTTGCTAGCTAAACTGTCCCAAGGTCCTTCAACGGTTCCTTGTTAA  
GTCGCTTTTCAGGCCTTCACTACCCGGGTTCACTCCAGCTGTGTAGCAACTCTCCCCAC  
AAATGGAAATGCGATAGCTAGTACCTGCCCCG

Sequence 360

CCGCGGTGGCGGCCGAGGTACTTTCAAAGACTTTAGAACCAAATGTCATTTCAGCTGAAA  
CCATAATGTATTATAAACTACGTCTTCTAGAGTTTTGTTGTCATAGAGTCAAATGAGATG  
CCAAATGCTAGCAATCCTATTTAGGAGGCCTACTATTAGGATTTAAAAGAAGTGGACTGC  
CAGAGATGAATTATGTGACACAGATGCTAACATCTAGTTATTATGAGTGATCCATTCTGT  
CATGAGGTAGCACTTGAAAAACAACCTGGGACAAAAGAACAGGCCTCTGGCACTACTGAA  
TTTTTGAGAGAGAAAACCTTTAGAAGTTAGCATGTGGTTCTTCTGGACATGTTCAATTGC  
CTTAGTTCCTTTTGCAAATATTTTGTAATATTATGAAGTGAATGAGATGTTTGAG  
AAGGCAGATCTGCAGATCCCCTAAAGAGCATTGTGAGTTATGCTGGGCTGTTCTACCT  
ATCCCTCTGTTTACCTGCGGCGGCCTCTCAGAGCCGTGATCGTGGTGGCTTTGTGGNGGT

Sequence 361

CCGCGGTGGCGGCCCGCCCGGGCAGGTACAGGGCTGGATCCTTCCCAGCCAGGGTGCCTG  
GGATTATTGGCTTTCAGCAGCCGACTCACGGAGGCCTCCTTTGGGCTAGGCACTGGGACA  
GACCCCTGCCTCCCCAAAGGCATGAGACCCTGGCCTGCCATTTGGGAGCTCAGAGCCTGG  
CTAGAGGCAGGAGAGGTGAGGAGGGAAGATAAGGACACAGATGGTGAATGTGGTGAGAAA  
GGAAGCATGAGGGGGTGGGCATGGTGCATGGGAGAACAGAGGAGGCGATGGAGGAGTCCA  
GGAAGCCTTCTGGGAGGCGGTGCGCTGAGCTGAGCCTCAAGGAGTATGAGCAGCTTCTC  
AACAGGAGAAGAGAGTGGAGAGCACTTTGGGCAGAAAGTTACA

Sequence 362

GA CTCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGGTACTTAATAAATT  
ACTGTTATTATAAATACTACCATTATTAGTTCAAATGAATGAAC TTATCCAAAGTTTC  
AAAGAGTCTACACAAAAATATTTGCTTTCATGTGCTTGAGTAAAGAATTTAGTATCTAAG  
AAGCATAACACCTTTAACGTTTAAACAATGGTTAATATAATTTATAGGAAAAATTTTT  
AATATTCTGTTAAAAACAGCAATAAAAGAAAGAAGATGC

Sequence 363

GATTGGAGCTCCACCGCGGTGGGCGGCCGAAGTACCTNTNTTTCNNGGCCATGGCAAAAA  
NAAATCCAATNATGNCCNNCTCGAGTCTGTGGTCTTGCTTCTTATGTAGTATTNCCTTTG  
TGAGCTGAANATTAATGCATGGATNNACCTGN TTCAGCACATTTNATTNNAATTGCNAAN  
AAANNATTCNNGGCNCTGAATGNAAAATTGAACATGACATTTTGACATTCTTNTTCTNA  
CAGCTGGGTTGGNCTTANTTGCTGNGAGGCTNTAGACACCGACCATAACAGGGCGTGGGGC  
TGCTCCTGGACATGAACATCCTCCGAAGTCTCCCCAGTCCACTTTACCCGCTCTGGGCT  
CACCTCTGAATGTCCCCGCGTACCTGCCCCG

Sequence 364

GGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACCACCTTGGTTGAGAACTCCTGACT  
AAAAGAAGGCAGGGCAGAGCAGGGTATGCCATTGATGTTGATTCTAGCATCCAAGAACC  
ACATCTGGGCATTTGTCTGAAGGAAGAAATTGGGAAGTTTCCATGATAAAAGCTCCAGTG  
GAAATTGTAGACCTTGGGAATGAATATGCTAAACTGAGGTTCTCAACCAAGGGCCAGATC  
ACAACCTCAGAGGCCTGAGGCAGACGTGTATTTGGAAGGCTTCCCAGGTGATTCTGAT  
TCAGGTCCCTCCCTCAGTGAGTCATAAGACTGAACAGGAAGACAAGAAAAGTTGCCCCAT  
AATGATGGCTCATGGTTATGGCCTTATGATGGGGATATAGCTGAGGCAGCACACACCTTG

Table 2

GAGCTGGGCTATANGCAGAGCTCTTATTTTAGATGGTGGCAGAAGAAACCACACACAATA  
TGAAGGCAGAANAGCAAAGGTCAGTGAAGGCCATGTTTTGCCCTTCANTGTTGCCAGGT  
CCTGCTGTGTGCCT

Sequence 365

CCGCGGTGGCGGCCCGCCCGGGCAGGTACAGGGTTTACTCAGTCCTGTTGTGTAATAGGA  
AGCAGGAAAGGGCAAGGGCCCTGGGAACAACCTCAGCCCTGCCACTTACTGGTCATGTAA  
CCCCGAGCAAAATGACCACCTCTGAGCCCCAGTCTCCTCTTCTGTAAATGGGTATACCAC  
CACCTACTCATAGGCTGCGTGATGAGAAATGGAATAATGTCAGGGAGTGCCTGGCATGAC  
GCTGGCACCCCTGGAGGCTCCCCAGGAACGGTGGCTACTGCCTTCAGAAAACTGAATCTA  
CTTCAACTTATTTTACGTAGGCCAAAGCATCCAGTCAGTGAGTAAATCAAGCTGCAAGAT  
TCATTTCTACTTAACTTTTAGGAGGAGTCATCCCATGATACCTCGAATAGGTCTCAAAGC  
ACATGCATGATATAAATGATTCAGTGATGACTCTGGTCAGATGTATGTTCTTATGAAA  
AACCTAAGTTCANGGGTTTACCTAACATACATGGGGATACTCATCTCCACCTNCCAAAG  
CTTTCAAATCAAGGCCAGAGACTTCCGGTCATCATCACTATTTTT

Sequence 366

GAGATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACGCGGGGTCAGTGGACTGAAAGTTC  
CCTAAGGCCAAAGGCCATTCTCTTTGGCTTTCAGTAGTATGCCCTGGCATTCTCTGCAA  
ACTTACCACCTTGATGGGTGCTAAAATATGTTTAACTGAGTATTGCACCCAACGGATGA  
AAATTTTCTAAAAGTGCTTCTATCAAGAATTAGGAAACCAAAGTATAGAAATAAATGAAG  
CTGATAAGCATAAGTTTGTGATGCTAAATAAAATTACACTGAAGTCCTAGCCACAGATTG  
GCAAGGACAGTTTTGTGGGGGCAGCCCCACATGCCATAGTCTCTGCAGGGAGCCATAAC  
TTAACATCCCCATGTTTAAATTTAAATTATATACCCAGCCCCCTGTTTTGTCCATTACC  
AGTTGAGAAGTGAGGTAATTCATTCTCCTTTCTACTGCTTCTGCCCATGGTGAGAACAGA  
ACTTCCATATACATCTTCTCTGCCAGCTGGAGGGGGCTGATGGAGGACACAGCTTCTGT  
CATCCACGCCCTCCCCTGGGAGTCTCTTTACTGATTGGTCTTCATTTGATCTACATTANGG  
CACATTTACTGATGGATGGAATAAACTGCTTTAACAGAATCATGGTCTNCAAGTTTCACT  
TCACCTTCTGTCTCANGTGTGGCANGTGCCCTGGCCCGAACCTGCTATTCTNTTCNGCT  
TCCTGGTCTTGGGGGCTTTTATCTACCGGTCNG

Sequence 367

AGGTACAATGGGCTTCATTATTGCCAAGTTGGAATAAGAAGTAGCAGAGGCTCAAAATAG  
TAATGTGAATGCTCAATGTTACATAATAATTCAATGGCGAGGCCAAGATTGGGATTCCAA  
TTCTCACATTTCTAGCCACTGCTCTTTTACACAATAAAGATGGGGAAAAACATTTA  
AGCAAGTTTGACAGGAGAGTGCCCTCTCCACCAACAAAAATTATTGAGGCTCAAAAGTTC  
AGGGATTTGCAGAGACCATTCAAATGGGAAAGGGCAAGTCTCTTCAACATGGTGGTGGA  
AACTGGATATCCACATGCAAAAGAAATGAAGTTGGACCCTTACCTTATACCATATACAAA  
AATTAATTCAAAATAGATTANAGATCTAAACAGAAGATCTAAAGCTATAAACTCTTAA  
ACACAGGAGAAAAGCTTCAGTGACNTTGGATTTAGCAATGATTTGTGGATGACACCCAAN  
GCCAGGCCATTAAAGTAAAAATATGTTACTGGGCCCTCCAAAATTAAANTTTGGGCCCT  
GGAAAAACCACCCGAATTTTAAAGCCCACTCCCTATNGGGGAAAAAANTTTGCCAATCNT  
TTTTTTGGTAAGGGGTTTNTTTCCNAAA

Sequence 368

TGNAGCTCCACCGCGGTGGCGGCCCGAGGTACCTTTCTTTCCAGGCCATGGCAAAAAAA  
TCCAATTATGTCCGTCTTGAGTCTGTGGTCTTGCTTCTTATGTAGTATTTCCTTTGTGAG  
CTGAAGATTAATGCATGGATTACCTCTTCAGCACATTTCAATTTGTGAAGAAAAG  
ATTCCAGGCACTGAATGTAAATGAACATGACATTTTACATTCCTTCTCTGAGAGCT  
GGGTTGGTCTTAAGTTGCTGTGAGGCTCTAGACACCGACCATACAGGGCGTGGGGCTGCT  
CCTGGACATGAACATCCTCCGAAGCTCTCCCCAGTCCCCCGCGTACCTGCCCG

Sequence 369

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCGGGCAGGTACATTTTCTAAAA



Table 2

TCCAAAATTACCCTTAATAAATCTTGGCAAACACACACTATAGGAGATAAAGACATCCC  
TAAATTTCACTCTAATTTACTGAAAATAGAAGTCAAATTAATTCAAATGTTGGCTTAC  
ATTAATAAGCACAGGATCTTATAATTTACTTTTAATCTTGGAGGAATTCTCATTATTCT  
CTCATCAATTCTTCTTCAAAAAAATAAATTAATAAAAACTTCCTTGTTGTCACATACAG  
TGTCCTAAACAGAAACATCTGATTTTTCTTTGGGTCAGCAAGAACAACCTTAACCTCCAAA  
TTCCTTTATGGCCACTATTTTAGACACTAAGACCAAGAACTCCAAAGAAAGCTATAAAAA  
AAAATGCTACTATATGACTATATAGTAGCATATATATATAGAAAAAATATAGTATAT  
GATACCAATATTATAGTTTACAAAACCACATTCATATACAACAGGGTTCAATTTTTTAA  
ATCACATCACGAGTGGAAGAAACCCAACTATATATTCTANGGAAAAAGCACCGGTC  
ACAGTGGCTTAAGCCTATAATCCCAGCACTTTGGGAGGGCCAGGCAGACAGATCCTTGAA  
GGCCAGGAAGTTTGANGGNCAGCCCGGGCCAACATTGGGTGGAACCCCTCTCTTCCCAA  
AATA

Sequence 370

AGGTACTACTGGCACTGAGCCAATGTATGCTATCAAGGAAAGCTTTATCTGTCACTGAGC  
AAAAGGTGAAGTTCAATTAGGTCAGTTTTATCACTTCTTTTCTACACACAACTATGAG  
GAGAGATCATTTCTTTCTTTCTTTTATTTATTTTTTTTGGAGACAGGGTCCCCTC  
TGTTGCCAGGTTAGAGTACCTGCCCG

Sequence 371

ATTGGAGCTCCCCGCGGTGGCGGCCGGGGGCCATTGAGACTGCCATGGAAGACTTGAAAG  
GTCACGTAGCTGAGACTTCTGGAGAGACCAATTCAAGGCTTCTGGCTCTTGACAAAGATGG  
ACCACTGGAACAATGAGAAGGAGAGAATTCTACTGGTCACAGACAAGACTCTCTTGATCT  
GCAAATACGACTTCATCATGCTGAGTTGTGTGCAGCTGCAGCGGATTCTCTGAGCGCTG  
TCTATCGCATCTGCCTGGGCAAGTTCACCTTCCCTGGGATGTCCCTGGACAAGAGACAAG  
GAGAAGGCCTTAGGATCTACTGGGGGAGTCCGGAGGAGCAGTCTTCTGTCCCGCTGGA  
ACCCATGGTCCACTGAAGTTCCTTATGCTACTTTCAGTGAATCCTATGAAATACACCA  
GTGAGAAATTCCTTGAAATTTGCAAGT

Sequence 372

CCGCGGTGGCGGCCCGCCCGGGCAGGTAATTGGCACATCTGGAAAATGACGGAGTCTTTC  
AAAAATACTGCTGGGAAGATGACCTGTTTTCACTCTCTCTTAGGCAGGTTACATCACC  
AGATGATGCTGGATATGGCTCCACTCCAAGGAAAAACAACCTTTTCTTGGTCTTTCAATGG  
CTGTTTATGAGTATACAACAAGTGCTTTCTATATACTGCAAACTCGTTAGACAGACAAGT  
CCCTCTGTCAATCCCACTCTACAGTGCATATGCTTCTGTGTGGTACCT

Sequence 373

CGCCCCGGGCAGGTACGCGGGGACACATTCAGAGGTGAGCCCAGAGGGGGTAAAGTGGACT  
GGGGAGAAGTTCGGAGGATGTTTCATGTCCAGGAGCAGCCCCACGCCCTGTATGGTCGGTG  
TCTAGAGCCTCAGCACTAAGACCAACCCAGCTCTCAGAAGAAGGAATGTCAAATGT  
CATGTTCAATTTTACATTCAGTGCCTGGAATCTTTTCTTCAATTTGAAATGAAATGTGC  
TGAAGGAGGTGAATCCATGCATTAATCTTCAGCTCACAAGGAAATACTACATAAGAAGC  
AAGACCACAGACTCAAGACGGACATAATTGGATTTTTTTGCCATGGCCTGGAAGAAAG  
GTACCT

Sequence 374

CGCNCNGCANGNTCGCGNGATTNTNNCNGCCTCATNNTTNNNGNAAGTNGCTAGNNNANG  
TGNNTCATGNGGTATAATGNATNAATACCNCCTTTNTATNNTNACCTACTNNCTNACGA  
CNCCTCTNATTATGNCNTNACNGAGATCGNNNGCATANNNAAGNNNCGCCCCCTNATTGCC  
NNNNNNNNGNACNCCNANAAATNTANAAAGNACATGGGANAANTTATACTAANTGNTN  
NNCTCACNTTCTGAATNAAAGNTGACACNCNTGCANNNNNAANAAACACTTGNNNNNNN  
GTNNGACNCCCTTGACATTAATCTNTNATAGGATANGAAAACTCTTCATCTATNCATAAA  
GCNAACATGTCTTNGGC

Sequence 375

Table 2

GCNNATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTAAGGCCCATGGTAGACAGTCAAC  
AAATATTTGTCCAACCTTAAGAGAAGATAAATTATTTTCTAAATACAACCTTATCTA  
TGCTCTTGCTTTCATAACAATACTCCTAAGAGCAGAGATTAATATGAGTAGCTGAAGT  
CAATTTAATATAGTGGAGTTAACTGCTCTGACTGGATGTTATCTATCAATCAACAATCAT  
AAATTGAGCATCAACTATATATTCAGCATGAATATCCTCATCAATATCTATGTATGTATG  
TATGTATGTATGTATGTATGTATCTATCTATCTATCTATCTATCTATCTATCTATCT  
TAATCCATCCATCCATCCACTCTGAAGATGCTATATATAGAGGCCATGGGAAATACAG  
AANTCTATCTATGGCAGGGCCCTGCCCTCAAGGAAATGGNGGGGGTCCAACAGTATTCAC  
TGNGGTNGAAGGGACCTGCCCGGGCGGGCGGCCGAGGTAAGTCTNCCCAACCCCTAAC  
CCATCTTANCANAAAGTTCAAAGCTTTTTGTGCTTAGNGACCATTTCTCAATTTCCCA  
ATTGTTNNTGANGGCGGTNTAAATGGATCCTAATATGCTCCTNNAGGANTCNTTTANAAC  
ATTCNTTGNTNTTCATANGGNTTTATGTACTAAGGAAAAATCATTCCCTTTNGGGAAANC  
CAAACCTTTTGAANGGGCTGNTTCCCTTGAAAA

Sequence 376

GCGAGATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTAAGTCTCTACTTTCTGA  
TAAGCTTTAAAGAAAAAACTAACTAAATATTTCAAATCAATGGACTTCAAGTAATC  
CAAGAGAAATTTGAAAAACATTTCTCTAAAACTAATCCAGAACACAAGGTGTCAGTTTGG  
AAATAACGGAAGCATATTTGTTTTAAAAATCTAAACATTTTAAAGACAAAAATTCAAG  
TTAACATCCCAGTGATTAAGTCTGGAAGTGCCTAGCCAAAAACAATTTGCGCACTTAAA  
ACATAAACTGTGAGTTTCTCTGCTTGAGACAAAAACATAAAAAAGCAACATTCAC  
GTTATATTTTCTAGACATGAAAGATAGAAC

Sequence 377

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTAAGTAAAGAG  
CCCATTGTTTTGTGTCTGGGAGGATGGGCAGTGAGGATGAGTGAGGATGAGTTTAATTT  
AGCTTGGTGAGAGGGGGACAAATCCACCTTTTCACGAGAGCTGTTTCTCATCGCTTTTGG  
TCCCCCTTCATCCACAACCCCGCAGCCAAAGGCAGTGTCAGTAAATTTGGGATGAAAA  
GCCTTAGGTAGGATTCTTATGTTTTCGAAATGTGACTGATTGGAATTTGGGGAAAGCTGT  
ATTAATTTGATATGTGGTAAAGCTGGATATGTGGTTATTACCCATATCCAGTAAGTG  
AGTCATGTTCTGTGCTACCATGATCTGCCCGCAGTAACCTAGCAAGACATCAAATCACA  
GTGTGCAGTAGATGGTACCT

Sequence 378

ACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTAAGTCTGGGAGGCTGAA  
GGAGGAGAATTGCTTGAACCCAGGAGGCAGAGGTTGCAGTGAGCAGAGATCATCGACCA  
CTGCACTCCAGTCTGGGCAATAAGAGTGAACTGTCTCAAAAAAAAAAAGGAAAAATT  
AATTACACCTGAGGGAAATTTCCCATGCAACATTTAATGAATGCCTTCAGTGCTGTTATAA  
TGCATTAATTTCTATGAGAAATGTTCTCTTTTTTGTGCCTTTTAGGAAAATTGCATTT  
TGGTGATAGAAGATAAAAACTTGGCTAATTAGGCCAGGCATGGTGGGTCATGCATGTAAT  
GATATGGGAGGCTGGCATATCACTTGAGGCCAGGAGTTTCGAGACTAGCCTGTCCAACACA  
GTGAAACCCCGTCTCTACTAAAAATACAAAAATTAGCTGGATGTGGTGGTGGATGCCTGT  
AATCCCAGCTACCTGGGAGGCTGAGGCAAGAAGAATCGCTTGAATCCAGGAGGTGGAGGT  
TGAAGTGAGCCGAATCACGTCACTTGTACCTGCCCG

Sequence 379

TAATACGACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACAGAAC  
TTAAACACCACTATTTGTTGAGATGAAAAAAGCATATATAGGAAGCCTTCAAATGAAA  
TGGTCAAGGGTGAGTTTACACAGATAGATAGATTTAGGTCTCTTCTTTTGTGTTGTGAA  
AGCATCTAGTGTGTTAGGTGTCAGAGAGGGAGATATCCTTACAAAGCAGAGATTATCATT  
CAGGTTTACATTTCTTACAAAGAGTTTCAAATAAACAGGTAAATGCCAAAAACATATAT  
TTTGGAGACGGATTAATTCAGTGTGGTCTATTCAACTTAACCTGTTTCCTAATGAGAT  
TAAATTCATGCACAAATAACCAACCAAAATTAACCAAAAGAATACTCACCAGAAAGG

Table 2

ATGTCCTTTACAAGAGCAGATCCCCAAAATGTAAGAGTTCACTGAAAAGGTGGGAGCTC  
AAACCAAGAGAGGACTTATCTCGCAGCATAAAGACAACCTGTACCT

Sequence 380

CGAGGTACAGCTTGGGCCTCCAGCTTTGGGCACTAGAATTGGACCCCTGCACCCCCATCA  
TGGGACTGGAGCAGGAGATTTGCCTGAGAGGTGTGGTTTTGGACCCAATAGCAAATTTGC  
AGGCTGAAGGAGATATATGGTCTGTCTGATTCTGTGGTTGGGATGAGGAAATGAGTCCT  
GATGGTTCTGGAGAGAGAGAGAGGCGAGGTCCCATACTGTTTGCCTGGTTTTAACAATGGG  
TTTGCCCTTGCCCTTCTGTGCTGGGACATTGATGCAATGTCAGTTGCTCTCATCTTTGCC  
TAGGCATTTCTACAGGGTTTGGCACTGTCCCTAGATCCCTGTCAGAGCCAGTGCTTCTG  
CCTGCTACTGGGGGACCAAATGGCTGTCTTGCCAGTCCAGCTCTACCCAGCTTCACCTC  
TCCCCACCAGTCCCCTCCCCTCCCCAAGGCTGAGTGTAAAGACCCAAACCACTGAGCTTT  
CCCTGGCCCAACCCATTGCGTGGGACACTTAAGTACCTGCCCGGGCGGCCGCTCT

Sequence 381

AATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACCTGGCCTATTCCTGGCTTTG  
AAAAAATGGTTTTTCGGACACTAAATCTTTTATTATAATTCAAACACATTATAGTTGCTTC  
TGGGAGACTTTTGCCTTTTGCCTGCTTACAACTAGCATCATATTCTAAAATCTCAGGA  
ACTAAAATTACTCATTGTAAATTTCTCTAAAATCAAAGCCTATTGGAATCCCTGCTCTTG  
TTATGTAAATATAAATATTGAGACATTTCACCCACATTTTCATTATTCAGCATTCCC  
ATCAAGTGCTGGAAGGCCAGTTCGCTATTTTATAATGAACGTNCTGGGTTTGTCTGAAA  
GGGCANCTTGTACCT

Sequence 382

CCGGGCAGGTACTGTGCTCAGAAATGTGACCAGCAATGTAAACCGACAGAACCAATGGCT  
TTTTTGAAAATAACAAAGTATTTCCGATCCTTTTAAAGTAGAGAATTTTCTCCAGCAC  
ATCCTATTTCCAATTGTGCGCAAAAAACCTTCCAGCTTACAAATGTTAATTCAGGGGTG  
GCAAATAAAGGCCAGAGGCCAAATCTGGCCCACCACCTGCTCAGTCTGCAAGCTAAGGA  
TGTTTTCTTACATTTTAAATGGTTGGGGAGAAATAGAAAGAGTATTTTGAATATGTGA  
AAATTACATGAAAAATCAAGTGTTCAAGTGCAATGTTCTTTGGTATACAGCCACACCCA  
TTCATTACGTATTGTACCT

Sequence 383

GCAGGANCCCCGGAATTACCACCATTTTACAAGGGGGGAAANTTNNTCATAGAGCATT  
TCACTTGTNTAAGGTCCCCAGGAGAGGAATGGATGGAATAAAAAACCAACCCGCTGTAT  
GACTTATATCCGCTGCTCTGAACATCTGGGAGGGCTCTCATTTGGGCATTACTCTTCCCA  
TCCACCCTAAAGATTGGCGAGAATGATTGCAGTTTGTAGGTAGACATTCTGCGAAGGGTG  
GGACCTTTTCNGCCCATCAAAGAATCATTCTGCCCAAATGCCACCAATGCCCTCCTTGAG  
AAACAGCTCAAACTCTATGTGTAAACAGCATCTGGCGTAGTACCTCGGCCGCTCTAGAA  
CTAGTG

Sequence 384

TGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAAACCTTCTAAACATCCTGTTTTCCCTCA  
AGACAGGGCACTGTTCTTAATAAACTGAACATTCTTTGCACTGGCCCTGGGGCAAGGGT  
GTCCCAAAAGCTTTGACAGGGGTGCCATTTGGCATAAACAGTGTGGTAATAGGGTGGAGT  
CAGAAAGAAATTCTCTCATCCCTTTTACAACCTCCAGGCAATTCTAGAACCAACCCCTGGG  
AACCCAGGGAAAGAATCTGAAATGATACGCTGGCTGAGGTTNGCCCGTGGCCACACCTC  
AGGGTTAAAGCN

Sequence 385

CCGCGGTGGCGGCCGCCGGGCAGGTACTGAGATCCTCTTCCCAAACCAATCAAAGGCC  
ATTTATTGAGAGGTAACCAGATAAAATAAAATGGTTGTAAACCAACACTCCCTGGTGGT  
TCCTCGTAGGAAGCCATGCTTCCCCAGCTTCAAGCCTTTCTATGAATTCTATCCAAAACA  
GGGTTGGATCANATTCTTACTGAGATCCTACTTGACTTAATCCTTGGCTTGGGGTTACTA  
GGGAATTAAGACATATTCAAAGGAAAAGAAAAGGAAAAAATAAGCAGCTGGAGTTTGTGT

Table 2

GCTTGGGTATGCTTCTATGTATGTATACACAATAGTTTAAGCCTGGCTAAGACTTTTATG  
A

Sequence 386

ATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACCCTGATCATATCANGGGCCCCATTTTA  
AAAGGAGACATTCTGATGAATCAAAGGAAAGATATNCTAGGAGCANAAAAATGTTTTGAA  
AGGATTTTGGAGATGGATCCAAGCAATGTGCAAGGAAAACACAATCTTTGTGTTGTTTAT  
TTTGAAGAAAAAGACTTATTAAGCTGAAAGATGCCTTCTTGAAACACTGGCATTANCA  
CCACATGAAGAATATATTCAGCGCCATTTGAATATAGTCAGGGATAAGATTTCTCNTCT  
AGTTTTATAGAGCCAATATTCCTCAACCAGTAAGATTTCAAGTATGGAAGGAAAGAAAATT  
CCAACGTAAAGTGTAAGAAAGAAATTAGAGGTGAATCCANACAAACACAAATAGTAAAAACA  
AGTGATAATAAAGTCAGTCTAAATCCAACAACAATTAGGAAAAAATG

Sequence 387

CCGGGCAGGTACTTTGAAACATTCTGGCAGGCAATGTGTCCAAGAGGGAGAATCTGAGA  
CCCCTTTTCTGAGGTCATCCAATCCCCTCCCCTCTTATCAGGGGTATGGTATGGCAGCT  
GTGGCAGAGGGATGGAGGAGAGGAGACACCANAGGGAAAAAANCAATCCTGTTC  
ACCCAGGAGGTCAACATTGGANGGAATNCAGAGGAAAAAGCNCAGGAGGGTGTACCAGG  
CNTACCCCNANATNAAAAGGGGTTTGGNCAAAATTTGGATGTGCAACAANTCAACCCAC  
CATGACNTGAAGGAGGCCACCGTNTGAACACAGGGCCTGGAACAATGGGTGTAATGAGTT  
ACTGCCACGTCAAAAAAATTGGTTGCTCCTGTTGATATGGTTTGAAGTGTGTCCCCCCAA  
ATCTNATCTTGAATTGNCCT

Sequence 388

NATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGCAGGTACACTTGTGAATGTTATGGA  
GCTGTTGATAATGACGGAGAAGTGGCCCCACTACAATTACATCAGGGCCATGGCTTTTGG  
AATATCGGAAGTCACAGAACTGACAATTATAGCTCGTCCATATTATCCTCGGCTCCCTTG  
CTGGAGAAGTCCTTCTTTTAGCCCCACTCGAGCTCTTGTCTGTCTTGGTCATTGTCTCT  
CCTTCTGAACTTTGGCTAGATCATTCTGATTAATGACAGAGCCCCTGAAAGCTTATCA  
TTTAACTCTGGATTAAGGCCGCCTGACTGCACTGCTCCGTGCTGCTTGCCATAATGTTCT  
AGCAGTTTAAGTGAGCTAGATGACTCACAGCTGAAACTACAAAATTTACACCAGTAGTAA  
CTGGTGGCCTCTGTACCT

Sequence 389

CCGCGGTGGCGGCCGAGGTACAAAATACTTTTCATCAAGAACCAAACGTTTTATTTCTAT  
TTAGCTGAAGAATTAATACTTTTACAGAAGCAATGAGTGAGCACAAAAAGCTTATTTTCC  
CATTCTCCATGTTCTCTCCTGAAACAATGATCCAAGTGATTTAGAACAAAGAATCCTAC  
CTTCAAATGAGTGTAGACCCTCTACAGGGGTATCTACCACGTTCTTCATGTCCCCAAAA  
TAGCTCATAGACCTTGCTAGAAGAGAGTGATGTGATTTTCTTACCTACCACCAAAATGA  
AAGAGAGAGAGACAGAGAGAGAGAAAAAACCCTCCNNANCAAAAAACCCCNNTAA  
ATCCCNNTTNGGTGGNGGGCCCCCNCCCCNCNTAANTAAANCGGNNCANNNGGGCCCC  
CAANCNGANCNGNNGTNNAACCNANTTCAGTTNTTNGGNGGGCAAATTCAAAAGGGNA  
GTTTTTTTTTNAAAATNTCATTTCATAANANAAAAAACGGTTCNNTACGGTCCCAACA  
NAACCNNTGGGGGAAAGNGGTTTTCCAAAAGGCTTCTCCCCAAAANTNCTGCCAAACCTG  
GGGCGGGAAAAAGGGAANTNGGANAGNGAAAANCCNGAAATACTTTTGACCTAATTTT  
TTTTTTTTA

Sequence 390

CCGCGGTGGCGGCCGAGGTACCAAAGAATTCTGTGTTTTAAACACCATCCAAAAGCAC  
AGCCCAAGTGGTGGGCCACCTCCCCACCCTGAAGTTCTGCGTTACATATAACCTTTCAGGC  
ACAAACAAGAAGGGTGTGGGATAGGGTGGAGGAGGCTAGAGATTTGTCTGCAAGGGCTTT  
ACCATCCACTAAAAGCTGTGTGCAGGACAGAAGCATCTTCTCTCCTCACTTTTGCACG  
TGTTGAGTATCATTTTGTGTGTGCCAGTGGATGTAGCGAGGATGCAGAACTCTCCAAGC  
AGCTTAGAGTCAAGAAGGCTGCTTGTCTTCTTCTGATTCTTCATGTAGTTCTTCCTGT

Table 2

GTTTCTTAGCATTCTCAAGTCATCTTTGGATTTTACTCTGCTGTTTATCCCATATATGC  
AGANTCAGATTACCAGAAGTCTTGNAAGACTCTTTTCAGAATATGAAAAGACCTTTNGGT  
AGCAAAAGAAAGTGAATTCTCTAAGGGCCGAGGTTGATGTTTTGGAGANTAGTCACCTTNT  
AAAAATGAGGATGGGCCTTTTGNNGACCACNATGAAAGGGGTCTTTAANCTTACCAAAA  
TCCAGAACTTTAATAGGGTGGAAGGCTTACCATTNTCTNGAAAGGTAGACNTTTCCTTT  
AATACCAATTNATTTTTTTTCAGAACTNTTATTACTTTTAAATTGA

Sequence 391

CCGGGCAGGTACGCGGGTAGGGATGCAGAACTGGCCACAGTCAGGGCTGGCCAAACAAGGG  
ATGGGATGGCAAGGGAACCAAGTGGGAGACTGTTTACACCTTTGACTTCCTCTTCACAGGT  
CAAGGCAGGACTGTAGCATTAGGTCTCAGAGATGCAATGAACAGGACAAATACACTTCCC  
CTTCATCTGGACCTGAGGCTCTGGGCAAGTCAGTACCT

Sequence 392

AGGTACTGGGGGTCAAGACTTCAGCATTCTTTGCGGGGGACCACAATCAGTGACACCCCT  
GACTCGCAAGCCTCAATCACCTGTTCAGTGAGAAACAGGACTGAGATCAGAAGGAATGA  
GGCAGAGCTGCCCTCGATTGGTCTCCTCTCCTCCTCACCTGCCCCG

Sequence 393

CGAGGTACATTTTACTTGCTTGATCTCTGATTCCCCTCACTGGGTACCCCGCACCTCTGA  
GTGCCCTCCTCACCCTGCATGAGCCTTGACACCAGGCCCTGAGCCTTTCTCTGTGTGGT  
TGCTCTCAGTCTCTGTGTGGGATCCAGAAGTGGCACCAAGCTCCCCACGTAGGAGG  
GTGCCCTCCCCATTCCCTCTGCTGAGGCTCGAACCAGCATGTCAGGCTGCTCCCCCATGT  
GGACACCTGACTCTCTTGGGCTCTTACTCTACACTGGCTGTACCTGCCCCG

Sequence 394

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTCACAATTTAAAAAACGG  
GGAAAAATAGACATCTGACAAAAATAAAATAAAAGACCAAGAACACATGAGCTGGAATG  
ATTAATATGTTAAACCATGTGCCAACTCAATGGTGAATGTGAATGTGATTTTAAATCCC  
CTGAGCTAGCCAGAATAAGAAAACCTTTTCTAAACACATGGACAACCTCTATTTTAAAGA  
TTCAGGGGAAGTCTAAAAAGATATGAAAGTTTAAAGATATAATTTTTTTTAAAAAAA  
TCAATAGAATCATCATAGTTGATCAGAGTAGGCATCTGACCCTTAGAGAAAAAAACAAA  
ACAAAAATGTCAACTCTAGAGTTGGAGTAAGCCCTGACAGTCCCCCTTCTGTATTTAGGT  
ANATAAACCACATATCCCCACGCCATGAATGAAGCAGAAGCGCTCANAGTGGACTGCACCA  
TCCAAGACTGGGAGACACTGGGTNGAACAGCGAGAAA

Sequence 395

CCGCGGTGGCGGCCCGCCCGGGCAGGTACATAAATCAGGGGTCTTGAGACCATCTTTCTT  
CCCCTGGACTGAAGGAACTCAAAGCTATTTTCTCCTGGGATTACAGGAACAAGCTCTGA  
ACAGTTGGGTGCCATTGTGGTCTGTAGACTTTTACAGAAAAAGCTCTACCAGACTGTTGC  
CTTGAAACTGTTAATCTGTTTGTCAATTAGTCATTCCACCTGGCTGGTGGTTTTAAACAC  
TAAATAGTCGTTGGAAAGTTAGGTAGATTTTATTAAAGCAAGACTTGAAAAATAGTTGCT  
TCAGGATCCCCAGGAGGCTTTTGCACCTGGGGTTGGGGTGAGGAATGGATATTCATAAGT  
TCAGTGTTGATATTCTGCTGCTTTTGGGGAGGGGTAGGGAGAGAGAGGGAGCATTAAAGT  
CTCCAGACTCCTGGTGTGGGTCAGGTCTAGGTCTGGTTTGGGCAGTTGGTTGTAATCTG  
AGTGCTGGACTTGCCCGGTAAGTTTTGCTGANAGAGAAANCCAAATGTTCTTANACTGG  
AAGANGAAAAGCTGCGTTTCAGGGTCAATTCATAGGTGCATTTGNTGNTTCTNATCGCT  
ATGGGTTAAAAA

Sequence 396

AGGTACGCGGGACTAATTTTTTTTCTTCTACTTAGAATAAAATTCATGTAGTGCAGTA  
TCCAGAGCACATTAAGTATTTGGAGACTAGATTTAATCTCAGATCTCACCCTTGG  
TAAATCATTAAGCTTCTGAGCATCAGAGTCTCAAACCTTTTATGAGAGGGGTAAGTGA  
GTTTTCAAAGGACAGAAGGAGGAAGACTACAGTTTCTTGAGCTTCTCCGATGTCGTAGGT  
ACCTGCCCCG

Table 2

## Sequence 397

CGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTGTAGAGACGGGGTTTACCATCTTGG  
CCAGACTGGTCTTGAACCTTTGACCTCGTGATCCACCCTCCTCGGCCTCCCAAAGTGCTG  
GGATTACAGGCGTGAGCCACATAACAGCAGTTCTCACCAAGCATCTGACAGCCGAAAAAC  
TGAAAGCATTAGAGAATGCTACAGGACAGGCTTTGGCTTAGTAGTGAGTTCTGAGTTCAA  
GCTGAGGCTCTGCACTTATTAGCTAGAACTTTGCTTAATCTCTCACAGGTCTCCTCTAAA  
TGATTAAATGGCGTAACGGAGGTAAGCGGATTAGCACAAATCCCGGCAAACAGTAAGCAC  
TCAATTGTTACTACTGAATTGCCAGTTCACAGGCACAACCAAC

## Sequence 398

CCGCGGTGGCGGCCGCCCGGGCAGGTACCAGGCTAGCCTTCCTGATGACTGCAGCAGCAA  
GGCTGCCCATGGGCCACCCAGACAGCCTGCTTAGAATCTCTAGAAGAGCTGCTTGATGT  
AAGACATTAAGACATTCTTAAACGAAGCCAGTCTTCAAGGACTAGAATAAATCCTTAATT  
CTTCCAATACATAGACATTAACGTAAAGCAACAAGAAACAAGGAAAGTCAAATAGACATA  
GCACTCCCCAAAGCATATAAATCTCTAAGTTGATCCAAAGATACAACTGCCTGACAA  
ATAATTCAAAATAACTCATTAAAAAATGCTCACTAACTTCCATAGGATACAGGGAAACA  
ATTCAATGGAATCAGGAAAAACAATAAATTACCAAAAAGAGATATTTACCAATTACCAAA  
ATTACCAAATTACAAAATTACCAAAAAGAGATATTTAACAGACAGATTGAAATTTTAAAC  
AAACAAACAACAACAACAACAACAATAACAGAATTTCTGGGGCAGAAAATTAGAG  
TGGAACGAAATAAAAAACCACCAGAAGAAAATATCAGTAACAGAATTTGATCAAGTAGNA  
AAAAAGGATTTATTCATGAATTTGGAAGACAGTTATTTGAAAAATTTNCCGTCCGGAAG

## Sequence 399

CGCCCGGGCAGGTACTAAAAATATAGCAATGTGGGTGGGCTCCAAGGACTGTTCCCTCAG  
ACCTCAAATCCACATGCTTATAGAAGACCACATAGGTACAGAGCAAACCTCTCTACACCTGT  
CTTTGTCAACTGTCACCCAGTTGAAGATCTCTGAAGCTGCATGCCGATTTAGGCCAACAA  
TCAGACTATGTAGCATTACATTTACATTTGTCTGTGTGTGATAACATGAAGCCAGAAGG  
AAGGAAAATTTGTGGCTGCTGGTTCCCTGACAAGCAGTTTGAAGGTCAAAAGAAACCAA  
CCCTGGAGGAACTCGAGTTATGACAGAGCAATGTTAAGTGTAGACCTAGGAGGGAAGCCT  
ATAGGGCTAGG

## Sequence 400

AGCGGGTAAAGTGGACTGGGGAGAACTTCGGAGGATGTTTCATGTCCAGGAGCAGCCCCAC  
GCCCTGTATGGTGGTGTCTAGAGCCTCACAGCAACTAAGACCAACCCAGCTCTCAGAAG  
AAGGAATGTCAAATGTCATGTTCAATTTTACATTCAGTGCCTGGAATCTTTCTTCACA  
ATTGAAATGAAATGTGCTGAAGGAGGTGAATCCATGCATTAATCTTCAGCTCACAAAGGA  
AATACTACATAAGAAGCANGACCACANACTCAAGACGGACATAATTGGATTTTTTTGCC  
CTGGCCTGNAAAGAAAGGTACCTTGCCCC

## Sequence 401

CGCGGTGGCGGCCGCCCGGGCAGGTACTGTTGATGAGCACTCCCTACCCACACTCCTTT  
GCTGCTCTCCCTCTCTCCTCCACTCTCCTGGCACTGACATGGGCTAGTCTGCTCTCTCTC  
ATTGGCAGACGAAAATCTATTTGATTGCGTCCACCACCTCTTTACCTCATTCTTTCAGT  
GGCAGGCAGATACCT

## Sequence 402

CCGCGGTGGCGGCCGCCCGGGCAGGTACAGGCAACTGAGAATCAGAATCCACCCATGGTA  
ACAGCAAAAGCAGCAACATCTAAACGTCGCTGCTAACGTTTACCTCTGATGAAGTTGTCA  
AAGTCATCCTGCCAGAAACCCCAAAGTTTGAATTACTAATGTGGCGTAACTCACACATG  
AAGCAAAATGGGAGAAAATATCAGTTATTTGAGCATGGAACTGCTGTATTTGTATATAC  
TCAGCTCAACCAATGCTTTCTGATAATCAGAGGAGGTGAGAAGTAACTTAGAGAAGCACA  
AGTTCAAGCCAACACACTGAACCTTTATCACACCTGCCAGAAAGCATTAGGTAGATACAT  
GTAAGGGTGACTGTGGAGCTCATGGACAGGAACTCCTCAATCTGCGGAAACCCATCAAGA  
CGAGAGAAAGACCACAGACGTATTTGAGGGTTGGGAAAATCCAAGAGGAAAGCCACCGGA

Table 2

CAGAAGAAAAGAAGAAATGGAATAAAAGTTTCTGGATTTCTGGTGCTGTTCAAGTTCA  
TTAAATGGACTGGGTCTCATCGGNCITTTATTTTTTAAAGG

Sequence 403

CCGCGGTGGCGGCCCGGGCAGGTACGCGGGATATATTCAAGGTATACCGATGTGATG  
CTAGGTGGGGATGTAGGGTTTGGGAGAGAGGAGACAGCATTGCTTAGATCAGTCACGTTT  
AGAGACCTCTTTACATAATCTTTACTTCCATCACAGGTGCAGATAGGTGGCTTCAGTTCA  
TATCTCTTCAGGAATACACACACAACTGGTGGAGAAGAGCAAAGGCATGCTGAGCTGGA  
GCCCAGAGCAAGGCCAGACTCACTGTCCAGCTCTTTTCTCCTTTACTCAGAGAGGTCTAA  
GAGAGGTGTGGCTCTTTCATGATTGGGCAGAATGATAATGTTGAGATGCCATGGACTTT  
CAGTATGGTTTACAAAGAGTGGAACACAAATGATAATCTGTGAATTTCAAGCTACTGT  
ATTATATGGATATATGAATATAGTTTATGAATATATATTAACAAAAATAGGGATCATAC  
AATGATGATGTTTTACAGCTTGCTCTTTCTCAATTAACAGTATCTTTCCATGTCAGCACA  
TACAGACCTAATTTTTTTTTAAGTATCCATTATATAGATATTCCACAACCTTCTAAAC  
TATGCAGNTNACCTGTGAACAACCTGGATTGNACTGCATGGGGTCCACTTTACACATTG  
GNTTTTTAAAAATAATATATTTGGAAAAAT

Sequence 404

AGCTCCCCCGCGGTGGCGGCCCGGGCAGGTACACGGGGGGCTGTTGCCATGGATAC  
GCTTTGTGTAGCGCTATGGGCGCTGTCTTACAACAAAGCCAAGGAATCTCGTGCTGAG  
GGCAGTTCTGTGCTTTATTATGAAGAATAATGGACGATGATGATGCAAAGCTCAAAGCAG  
AAATAGAAGCTGAATTGGATAAACTCANCATTTCTCCTTGGAAAAAGAAGACAATGAGA  
GTGATGCAAAATCAGAAACCCAGAGTGATGATAGTGATACAGATTGAGTTGAATTACCAG  
AATCAGTTCTTCACTGTATTAACATCATAAAGAACGGGAGTAAAGCTGTTGAAGAGCTCA  
TTCTTCAGGACCTGGAAGATCTGATATTTTAAAG

Sequence 405

TATACGACTCACTATAGGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACAAGG  
TCTGAGGAGAAGGTTGAGGTCTCCCCAAGACTTCTCTAGAACACTTGGTGAGAGGCGCCA  
TGAGGACAGGTGATGCTTGGGCTTATAGCTCTGACTCANGACATCACTGCTCAACAGCCT  
GAAGCCCATCCAAAGCTCATGTCTGCTGGCAATTGAAGGGGTAGCAGAGCCCCAAAG  
TCCAGAGGGGCTCATCACAGGGAGCAGATGTCTGTNAGCAGGAGAGACAGCGGCTGTAGG  
GATCGATGAGACTTGGAAGCATGATGTGCTCTTGTGAGCATAGCATCTTTGAGCTCACA  
CAATAATTGATGTATAATTGTCCATTTAGTAAGGAGTTTCCACATCCACTATCTTCCAC  
GATTCTCACAAAGGGCCTTGAGTAAATATTACCTGCATGTTATGGGTGAGAAAGGGTAGT  
TTAAAAAGCTGAAAGGATTGTTGGAANGCCACATAATGAGTTAACCTGAAATCAAGGCCA  
GACCCCGAGG

Sequence 406

CCGCGGTGGCGGCCGAGGTACAGATCAATAAGCAATCTGCACTACTTCGAGAGCATTGC  
GTATTTATGAGCATGGTGAGGAGGTTATATAGGATTTGGGAAGGAGGGACTCCAAACCAC  
AAAGGTAATGGTTGGGCTGCACTGACATTAAGCTTGCTGTGGTTTTTCTGCTGATGGG  
ACCCATGAATGTAGTTTTCTCCTTTGGTGGTTTTAATGCTGAATGTGTAAACCCCTAGG  
CAGATTGTGTAAACATCCCCAGGCCAGCTGCTGGTCCCTGCCATTAAAGGGGAACCTCA  
AGGCCGATTCTTGGCTGGCAGCTGCACTGTGGAGGGCATCCAGGAGAAGTTGTTGGG  
AAAGGGTGGTGTGCTTTGTAAGTCGGTTCAAGTTTTGTAAAGCAAGTCAGGAAGCCCC  
AGTGACCTTTTTGAGCTTATACTGGAGCAATTCCAGTTCCTTTTTTCTTCCAACCTTAC  
CTGTGAAAAGGC

Sequence 407

CCCGGGCAGGTACATGTTATCTGCCCTTGGCTGTATGNAAAAGCTCAANTTANCAAAACA  
GGAGAGAGATAAAAAGGAGTAAATATTTTGTGGATAAAGCTCTGTCACTGAATGTCT  
TTGAACCCAAAGAAGACACCAGAAAGTCTCCAAACCTCTAATTCATCTGTAACTGGGAA  
CTCATACTAAGTCATGCTGACTGTAGGAATAAAAAGATGAAGAGGAAGGGGGGCTCACT

Table 2

AGCAATATCAGGCACTACCCAGAATTAGTGCCAGTTGATCCCTGGTCAGGGTGCATAGGC  
TTGGAGAAGAGTAAATTTGCAGGGCATAATGGACCATGCTCTGAGATGCAATTTTCTTAA  
ACTTAATTGGCTCTGGATGAGTGCATTCCAATGTGACGGAGGAGGTATTTGCTTCCTGGG  
AAGGTTTTCTTTCACAACAGGCAAGAAAAATTGCTCTTTAAATATACCTCTTCGGGGTT  
GAAAAGACAAAATCCTCATGGCTTAAATTTCTAAATGGGCTAGCCATCATCAAAAGTACC  
T

## Sequence 408

TCCGGCGAATTGGATTTTTACCNGCGGTGNCCGGCCGCCGGGCAGGTACAAATCNTNATG  
CATATTTGACACATTTTTTGGCTTTTNTNTTGGGGACCAGCAGACCACCCCGCAGATACA  
ATGCACGGAATCTAGCAAACAATAAAGAGCAGTGTGCTCGCGTGGCAGATCGTTCGCTTC  
CTTCCTTTTTCGCCCTTCATTTTTGGGAAGTCCTTGCCCTCGTTAGTTCATAGGCCATGAG  
ACATAGCAATATAAAATGCCAGAGGATGTTCAAATGGGCGTGTGGAGGAAGAGGGAAAGC  
AGGAATTCTGGGCCAAAGAGCAGATGGCCAGCCAGTGACCTANGAAGGGAAGCTCANGCT  
TTTAAACAATGGCA

## Sequence 409

CGCGGTGGCGGCCCGACGTACATGTGACGACGTCCAGGATAGTTTTGAAATGAGAAATGA  
GAGCAGCATTTCCTTGGTGTCTGTGAAAAATATTATACATTTATTAATATTGAAGAAGT  
GTGGGCTGGGCGTGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAAGCTGAGGCTGGT  
GGATCACCTGAGGTGAGGAGTTCNAGACCAGCCTGGCCAACATAGTGAACCCCATCTCT  
ACTAAAAATACAAAATTAGCCGGGTGTGGTGGTGCATGCCTGTAATCCCAGCTACTCGGG  
AGGCTGAGGCANGAGAACCCTTGAACCCANGANGCAGAAGTTGCAGTGAGCCAAGATCG  
CGCCATTGCACTCCANGCTTGGGCAA

## Sequence 410

AGGGCGAATTGGAGTTCCCCGCGGTGGCGGCCGCCGGGCAGGTACAAGCTCAGGATTCT  
CCGAATGAAGTTAAGGTCCCTTGCCCATCCGGAGAGGCCTCAGCTGTGTCGGTATGATCT  
TGTCCTGATGGAAAAACGTTGAAACAGTCTTCCAACCTATTCTTTGCCAGAGTTGCAGTT  
GTAAGTGTGCCAGGACACATGGCCATAAATAATAGAAAAGAAAGCTACAACCAAGGCTG  
TTTGAAAGCTTCACCTCACCTTTCTGCAAGGCAGAAAAAGTATGAAAAAACCAGGCTT  
TTTTAGTAGCGTCCTATGGATGTCACATTGTACCT

## Sequence 411

CCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGAACTTAAACACCACT  
ATTTGTTGAGATGAAAAAAGCATATATAGGAAGCCTTCAGAATGAAATGGTCAAGGGTG  
AGTTTACACAGATAGATAGATTTAGGTCTCTTCCTTTTGCTTTGTGAAAGCATCTAGTGT  
TTTAGGTGTCAGAGAGGGAGATATCCTTACAAAGCAGAGATTATCATTACAGGTTTACAT  
TTCTTACAAAGAGTTTCAAAATAAACAGGTAAATGCCAAAAACGTATATTTTGGAGACGG  
ATTAATTCACTAGTTGGTCTATTCAACTTAACTTGTTCCTAATGAGATTAAATTCATGC  
ACAAATAACCAAAACCAAAATTAACCAAAAGAATACTCACCAGAAAGGATGTCCTTTAC  
AAGAGCAGATCCCCCAAAATGTAAGAGTTCAGTGAAAAGGTGGGAGCTCAAACCAAGAGA  
GGACTTATCTCGCAGCATAAAGACAACCTGTACCT

## Sequence 412

GGTGGCGGCCCGCCCGGGCAGGTTCCAGTTGAGAAGCTGAATGTTGGTGTGTGNTTNTG  
ATAAATCCCAACATGAAACTGAGGACCACCAGCGTTTTTCAGCTCACCTTTGACTCACG  
CTGGCAGCTCCAGGAACACTGAACAGGAGTCCCCACTGAACCTTTGCTGCGTTCCGAAGC  
AGCACAGCCATGGTTAGGCACTGCCAGGCAGCTCTTGAAACCACAGGGAGGGAAGTTTT  
GGTTCCTTCTTTCTGTCTTTGTTTTGAGAGGAATGAGCTTGAATAAAAGAACGCTAGT  
AATGACTGATTTGCAGGTTAGGTGTAAACATTAAATCCTCATAACANGCTAATGAGAGGN  
GGGAGAAATTATCCCCATTTTACAGATGAAGGAACAGAGGCTCCTAGAGACTAAAGAACT  
TGCTACTCAATGAGGTCAGGATTCACACCTAGGGTGACCTGAGGATAGCTGCTGCAANTG  
CTCACCTTTCTACCTTCCCAAGAAACAATACGCAAGAGAATTTCTTTCTAAATATTGNG



Table 2

TGCCTAGAANGTGCTTTGGGGNTATCGAAACAGATATATATGTGTATATCTGGGCTCTTT  
AAAAATCTCTTTAATAAAAAACAAAAAGTGATGCTAGTGGTAAAAATAAAAAAATNTTTT  
NNAAAANTGGGGGNCCTCGANAANTCTTCTTNCGGAAAGATATTATGCATATATGCNC  
GATTAGTTTTGG

Sequence 413

CGGGGTGGCGGCCCGCCGGGCAGGTAAGTTGAAGTAAAGCTCACCCCTTTACTTCCC  
TACTTGAAAGTTCTACTCTGAGCCTTGACTCTTAGCCACAGTGAGGCATGTTGAAGGTTG  
CTGCTGGTTTATTCTTTTTTTTTTTTTTTAGACAGAGTCTCACTCTGTTGCCAGGCTG  
GAGTGCAGTGGCACGATCTCGGTTCACTGCAAGCTCCGCCTCCCGGTTTCATGCCATTCT  
CCTGCCTCAGNCTCCCAAGTGGCTGGGACTGCAGGCACCCGCCACCACGCCTGGCTAATT  
TTTTGATTTNTAGTAGAGACAGGATTTACCATGTTAGCCACGATGGTCTCGATCTCCT  
GACCTCGTGATCCGCCAGCCGTGGCCTNCCAAAGTGCTGGGACTACACGTGTGAGCCACC  
ACTTCCAGCCAATCCCCGCGTACCTNNGGCGCTCTAGAACTAGTG

Sequence 414

TGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGACTAGCCTTCATCTAGTTCAGGACTCCT  
ACCATACCCACACCTTTTTACCTACTTTCTAGTCACAAAATAACTTTTCATCATTCTGAG  
CACACCACGTCCTTCCATGACTCCTTGCTCTGATGNCATTCTGAGGCAGGGCTGAAATG  
AGAGACACCANAGTGAGACCTTGCTTTAATTTATTTTATGATGCCAAAGCTACCAAATCTA  
TTCTAAGAGAAGATCAGGCATGTNACAGTGTTTTTAAATTGCCGGCAGCAACCCATTAGT  
GGATCATGGCCATCATTTAAAAACGCTAATCTGAAGAATATCANCACATATCACACAGAG  
TGAGGTCATTACTGCTTTATGAACTTCTGTTACATGAACATATATGTGATGAAAAAA

Sequence 415

GCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGAATCTCTTAAACCGTAAGAGAATCTCTT  
AAACCAAAGGCTGCAGTGAGCTATATGGTGCCATTGTATTCCAACCTGAGTGACAGAGTG  
AGATCCTGTCTCTGAAAAAATTTTTAAATTAAGGCAAGGACATGAAACACACCA  
TTATCCAAATGTATTACCCAAATATCTTCAAATGCTAAGAAGTAATTTTGGATTAAAGG  
TCTCTTCGGAGTCTACATGCCTACACTCTCCTTCATTAGTGTGAATAATCAAAAACATAA  
CCGGATTTCAAGTGGAACATTTAACTGACATCTTCTGATGTTATTTTCATCCAAATTACT  
TTGAGATAAAGAAATGTTGCAGACAATTGTACCT

Sequence 416

GGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTAAGTACAGCTGCATCACACTGAATAT  
CATCTCCCTGCACTGCCATTTCAATTTGAGCAGGGCTTTGCCTGTCAAGAACATTCATATC  
TTTTGATAAACAGTGCAATTTTTCCCTGATAGTCTGTATGGGACAGCCTCCTTGTTTGCA  
TCTGAAGGACAGGGACTTCAGGACCTCCTGCTGTGGTCACCAAGGAATCACATTCAAAT  
TCTCAGCAAGGTGTTATGGTCCTTCTCAGTTTGCCTACGATCCATTGAGGCAAAGGTTTC  
CTTCTCTCAATACACCCTCTGCTTTANCCAGGGGGACCTCCCACTGNCCTCTCTATGTGT  
NCTATTTGTTCTGACTGTTAGTACCT

Sequence 417

GCGAATTGGAGCTCCCCGCGGTGGCGGCCGANGTGNACGGATCACAAGGTCAGGANATGG  
AGACCATCCTGGCTAACGTGGTNAAACCCCATCTCTACTAAATACAAAANAGTACCCGGG  
NGTGACAGCATGTGCCTGTACTCCCAANTACTCANGATGCTGANGCAGGACAATGGGGNG  
AACCCGGGAAGCAGANCTTGCANTGAGCAAGAGATNGTGCCCTGCACTCCAGCCTGGGC  
GAACAGAGCGAGACTATGCCTCAAAACAAAACAAAACACTANAGGGCAATTTTGCATGC  
AAATTATGCTAAGGCATAATTTTATGATTATCTTAGTATTTCTNAANNATGTAGTCNTC  
TATGGATTTACTGAACAAATTTGCCATATCTGCT

Sequence 418

AGGTACATTTACGGAGGTGGGACCAAAAGAGGAAAGAACAAAATCCCCTAAGTGCCAGC  
ATGTTGGGAATGCATCATTGCAATAAAATTTGTGAACTAATACTGGCAGGCAAACAACAA  
AAAACAACAACTGCCACAACTGCAATATGCTTATCAGGGGTCTTGACCAAAAAGAAAG

Table 2

GCCCCGATCTTCCACAGAGGACACTGGCACCAGTCCCAGGTCCTGCAACTCTTGAATAG  
CTCCATGTGCCGTGTTCTCTCAGGTACCTTGCCCG

Sequence 419

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACACGGTAACCACATTTAGATGG  
ACTGGGATGTTGCCACACATACAAGCATTGATAACTGGCTTCTCATTACCTGAATACATT  
CTTCTGTCTAGAGCAACAGACTCAGCTATGCTTCTGGCAAAATTGTTCTTAATTCTCTATT  
GATTAATTTATTCTGGGTAAGTATTTTATTGGGGTATTTTCTGTCTGAAAAGTGCGATTCC  
AGGTGCTTTATGTGTCTCTGTGTGTGGGTGTTATATAAATACTTATAATACTGTATCCAT  
ACTCTTGAAAAGCTTAAGTTGGGAAGGCAAGGCATGCAATAAGGAACACAGAATTTTAGT  
CATTCCACAACCATCTGTTTGAATGGCTGCTATTGTTAGTATCCGGTGGTTGGAACTGA  
GAAGCAAAAGATGACTATAATAGGGATCTCTTTTCTG

Sequence 420

ATAACCCACCCAGTGAAAACTCCAGCCCAGTGAAGTGGAGGGTGTCTTTTTGGCCAC  
GGTAACTGAGGGATTATGATGAAGCTGAAGTTCAGGATGAATGAGAAAATGTTGAACCT  
CAAAAGCCATCTCAGAAAGTTGAAATTAGGAGAGGACGCTGGTTCCAACTTGCTCCAA  
TGATCTTCAGCGTCNTTCTNGCCACAGGCTTGATGGAATTCAGAAATTTCCGACAGGCTG  
TTCTTGGATCTCCGATAAGCCCCGGGAAATGGANTTCAAACACTGAANTACAANCAAAATTG  
AGCNTGAAGGATACGATGGGTGTGATTTGCTTTTTTCTTTGGCAACTATTTNCCTAAGGT  
TTCCTTTTCTCTCCATGG

Sequence 421

CCGCGGTGGCGGCCGCCCGGGCAGGTACCCAAGCTTCACAGCCCTGTCTCTGCCATGGAG  
AGCAGGCCCACGCACTGCTGCCTGCTGGAGCAACCGTGCTGGTCACAGGGCCAGAGGCAG  
AGAGCCCTAACAAGCAGTCAGGGCGCTAATGAGGAAGGGGGGGGACAACCTGTCTCTAC  
AGAAAAATAATGAAGATTAATATGTTCAACAACCTCCATCCAGAATCCAGCAGGAAGTTA  
AACCAAACGACACATGATTCTCTGACGAAGAAATAAGAATACGGTTGACTGGTTTTTTAT  
ATTTATTTACCTGAAAGCTTCTAATGTTTCTAACTAGTGACATATTTAGGCCAGGAATT  
CTGTTTGCCTAGAATCATGATGTCTAAACACTGCACACTTGACCAACTTTGGATCCAAAT  
AACTAGCTTTGGTATGCTCTTG

Sequence 422

CCGGGCAGGTAAGTGGTGAAGTCAACCTCTGCCAGCAGCCACTTTGCACTGGGCACCAGCA  
CATACCAGCCCCCATCAGGAAATGTGCACAGTCCATCTCATCTTGTTTCATCTTCATTTT  
ATTAATGAGGAACTGAGAGTCCAAGAAGGTTCAATCATTGCTCAAGGGACAAAGAAGTG  
CATATCAACTCAAGATCTGAGCGACTCCAAAGCCCAAGCTCTGTGCCCCCGATAACACTA  
AAGGGCTCTGGAACCTTCCCTCACTGTGCCAAATTCTGGTCGCCACACTTAGGAAAGGT  
ACCT

Sequence 423

AGGTACCGCGGGACTAATTTTTTTTTCTTCTACTTAGAATAAAATTCATGTAGTGCAGTA  
TCCAGAGCACATTAAGTGAAGTATTTGGAGACTAGATTTAATCTCAGATCTCACCTTGG  
TAAATCATTAACTTCTGAGCATCANTAGTCTCAAACTTTTTTATTGAAGAAGGGGGT  
AAAGTTGGTANNTTTTTTCCAAAGGGAACAGNAAAAGGGGAGNGGAAAANTACCTTACCA  
GNTTCTTCCNTTGNAAAGGCCTTTTCTTNCNGAAATTGTTANTTAAGGGNTAACCCC  
TTNGNCNCCCGGGGNCAGGGGCTNCGNNTTCTTAAGNAAAACNTANGGGTTGGGGATT  
CNCNNCCCTNGGGGNCCTTNGANAATGGGGANAATTTCTGNAATTAATTTCCAAAAAG  
GCNTTTTTAATTCGGGAATTAACCCCCGG

Sequence 424

AGCGGTAAAGTGGACTGGGGAGAACTTCNGAGGATGTTGATGTCAGGAGCAGCCCCAC  
GCCCTGTATGGNCGGTGTCTAGAGCCTNACANCACTAAAGACCAACCCANCTCTCATAA  
GAAAGGAATGTCAAANTGTCATGTTCAATTTTTACATTTAGTAGCCTGGGAATCTTTTT  
CTTCACAAATTTGAAAATGAACTGTGCTTGAAANGGAGGTNAATTNCATTGCATTAATC

Table 2

TTNAGCTCACAAG

Sequence 425

AGGTACCACAGGACACGCCCAGGATGTTGGGTTCTGGTGCTGACCACAGTGCTATGGTC  
ACTCCACAGTCCAGCACTGCAGTGCACAAAGGGTGCCCTTTGACAAAAATGCTGCAGCAA  
GAGTNTGACCAACTTGAAAAGCANCAANATCAGCAAGATAAAAGATTCTGAGAAGTNCT  
AAGTAGCCCTCTACGAAGATACAAACATGCACAC

Sequence 426

AGGTACCATAATTCATATATCCTGTTTTTATTTGTATAGGAACCTAGGAGAAAAGAGAAGG  
AAAATTGAAAAATAATTAAGTCAAATGCAATACTTGTGCTAAAAATGTTGTCAAAGTTG  
AGGCCANCTTCTAGGCAAAATGTTCCGGTAGGCANGANTTGCCTTTTCAGTCTTNTTTTC  
TCAATTTANCCAAAAAGTTTT

Sequence 427

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTGTGGGCAAAATGAAATCTGAGTGGACCAA  
TGACCTCACCATGTCCAGTGTTGGTTGCTAGTTTGAGATTTGGAATGGCTGTTCCAGGT  
GAAGAGGTAAATGGATCCAAATGCCTTGTTATAAGGCATTTGACAATGCTTACAGCAAGT  
ANNTGTGAATAGAGGGCCATTAAATTCTANCCATAAACATTTCCCGGGGCTACTGGTTAT  
TTTTTGGTTGNAACTTACACTTTTGAGGTTTTTACAANGAGACAAGGNTNTACAAGGA  
TACCCTACATGT

Sequence 428

CCGGGCAGGTACGCGGGGAGTGGCATCCTTTGAACTCACGGATCCAGTCATAACTGAAGT  
TCCATCTACACCTGGGGTCTTCAGACCCAGGCTCTGGAAAAGATCCTGTTACTTACAAGC  
AAAAGAAATTCTGCCTCTTACCCTCAGCATGTGAGTACCT

Sequence 429

CCGGGCAGGTACTAGACATCTCTCTGAGGTCATGTCACACTCACCATGCCACCCCATCAT  
GTCTTATAGATGGGACCCTCCTCTTCTGGTTAACACATCATCTGAAGATAGCCAGAGAG  
CCATCTCTAAGCTGTGCAATGACAAGGAGTCATCCTTCATAGAAGACATCTGCCCCCAA  
ACAGGTCGTCTATACTTGATGGTGACTTGTTAAGAAGTTCACCCTGTGCTTTATTTCCA  
CTCAGGACACCTGGAAAAGGTAAAAGAACCACCATAGTTGTACCT

Sequence 430

CAGTNTATTTGCTNGAAAAGTGGTAGTAATGCTGAAGAGTTTCAAATTATTTGAGCCTCT  
CTCTCACCTCTCTCAGTTTCTCATCTTTGAAATGGGAATACTAATACATACCTCAGTTG  
ATTATGAGGGAAAGAGTTAAATGACGTAATATGTGGAAGGGCTTAGCCAAGTCTTAAT  
AGGCATCGCTCAGTAAATGTTACCTAAGTACTCCAGCCTGGGTGACAGAGCAAAGACTCC  
GCCTCAAAAAAAGTGCGAATCCAACCGTCTACC

Sequence 431

AGGTACTCTCTGAGCCGAGTGCAGTGGCTCACACCGGTAATCCCAGCAATTTTGAGGGCC  
GAGATGGGCAGATCACTTTTGAAGCANGAGTTTGAGACCAGTNTGGCCAACGTGGNTAAA  
NGCTGTCTNTACTAAAAAGGNNAANNAATNACNCNCNNGGNGCTGTNGCCTNAACTCINN  
TTGACACTTTNTTANAGGGNGGGTTTNNCGCACTTTGNAATCNTTTNCGAAACNAAAAA  
NNGNNAGNNGNACCATTNNANATNGCCNCCGAANATCCCTTTGGAATGAAATNTTTTCGN  
GCCAACCTTNNACCCTTNTTGCCAAANTCCTAGGAATTNGGGNGAGCCCNCAANAAGCA  
GNCCCCNAANGGGNAACCCTNTGGGAANGNAAANTGTTTNTTTGGGGAAAAA

Sequence 432

GCGGTGGCGGCCGAGGTACATACTGAGCTCCTCCNTCACTGGNGCANACATTCAGTGCCT  
GTCCTCTTACCTGTCCAGATGGGTGTTAGGGCCCCAAAGAAGATTCAGCTCAGGGCTTTG  
TCTGCAGGATGTTTCTAATGTGGTAGGAGACAAATAACGCCTGACATTCAACCAAGGTGG  
ACAAAGNNNCGGGCTCAGNGGCTCACGGTTGTATTGCCAGCACTTTGGGAAGCTGTGGC  
AGGTGGATCACCTGAGGTGAGGAGTTCGAGACCAGCCTGACCAACATGGTGAAACCCCGT  
CTCTACGAAGAACACAAAAAATTAGCTGGCCGTGGTGGTGCACACTTGTAATCCCAGCTA

Table 2

CTTGAGAGACTGAGGCAGGAGTTCNCTTGAACCCAGGAGGCANAGGTTGCAGTGAGCTGA  
GATCGCACCGTTGTACCTGCCCCG

Sequence 433

CCGCGGTGGGCGGCCCGCCCGGGCAGGTACCGTAAGTTGAAGTCCAGGAGGGTTCCAGAC  
ACAGAGCTTCTGGTGTCTTCTCCCTGTGGAGTCAGGACTCATTACTCTGCTGTCTTTGAT  
GTGTGACAACAGGCACCAACTATCGCCAAGTACAGAGCTCACCAGAGCTCTGATGTTGG  
AAGTTTTTATTGGGGCCTCAGCATGTAGACATGATTGACTGGTTGGTGGATTAAGTGTCT  
ACATGGTTAATCTTANTGTCCAGGTCAGCTGATACTGCGTGACCAAAAGCTCCTACCCCCG  
AATCCCTTGAT

Sequence 434

TCCCCCGCGGTGGCGGCCGAGGTACACAGCCTGGCACGTAGCAAGTGTGAAATATCTCT  
TGGAGAGAGAGAAAAAATGAATCTATTAATGTCTCTATGATGCACTGCGGAAGCTA  
GACTTGGTAGATCGAGTTTAANGGANTGAANAGGGGGTGAATGTTTGTACTTCCGTATA  
TTTGGAGTATTTGATAAAACAGAAGACCAGTTTCTCTCAAACCTTCATGTCGGNTTGTAG  
GTCAGGCTGCCAGGGTTTAGGGTACCTGCCCCG

Sequence 435

GGGCAATCTACACAAGTTTGGGGTCTTGCAATCAATCAAGACCCGAAGGGAGTAGCGGT  
TTCTCAGTTTTATTACTCCTGTAAATCCTTCTTAGTTTATTTCTGGTCTTGCAAAAT  
ATTTTTCTACCAGCTGCATTGGACATGGNGAAGTTTTTTTGAACTTTTGAAGATTTTC  
AGTTTTCTGCATTAATAATACTTTGGAGTATATACAATTTTTTGTCTACATCATATA  
TCCACACTGCACATAGATATTTTCTGGCAGAACAATATCCCATAAAAAATCTTAAGCTTC  
TTTAGTTAGAATACCATAACCTTCATATGCTACATGGTAACATTACCCGCGTACCT

Sequence 436

GCGGCCCCGGGGGCCATTGAGACTGCCATGGAAGACTTGAAAGGTCACGTAGCTGAGACTT  
CTGGAGAGACCATTCAAGGCTTCTGGCTCTTGACAAAGATAGACCACTGGAACAATGAGA  
AGGAGAGAATTCTACTGGTCACAGACAAGACTCTCTTGATCTGCAAATACGACTTCATCA  
TGCTGAGTTGTGTGCAGCTGCAGCGGATTCCTCTGAGCGCTGTCTATCGCATCTGCCTGG  
GCAAGTTCACCTTCCCTGGGATGTCCCTGGACAAGAGACAAGGAGAAGGCCCTTAGGATCT  
ACTGGGGGAGTCCGGAGGAGCAGTCTCTTCTGTCCCGCTGGAACCCATGGTCCACTGAAG  
TTCCTTATGCTACTTTCACTGAGCATCCTATGAAATACACCAGTGAGAAATTCCTTGAAA  
TTTGCAAGTTGTCTGGGTTTCATGTCTAAGCTTGTTCAGCTATCCAGAATGCCACAAGA  
ATTCAACTGGATCTGGAAGAAGAAAGAACTGATGGTGTTAACTGAAC

Sequence 437

AGGTACGGTGGGGCACCCAGGTAGTAATNTGCAGGAAGTAGAATTGGCAACAAAGGACAC  
AGAATGAAATGGTGAGATGGCTAGCCGGAACATAGGGAGAATGGCATCACAAAGGCAAA  
GGGGGGAAAGAATTCAGTTTAGTGATAGTCAACCAAGGCATTTCACTTAGCAGTCAGG  
AATGAAAAAACGATACTGAATTTGAACATTANGAAAGCTTGGTAAATTTCAAGAGNTA  
ATTTCTGCAAAGTTGGAACACAGTGAATTAAGAAAGTGCTTAAAAATTGAGGACAATTGA  
AAAGTTNACCAATGTTAAACCAAAACCCAAAAAATTTTNAATTTTAGGCCCCCCCAA  
TTCATTNGGGGGGGTTTTTTTGGNAAGGCCCNTTTTTTTTTAAAA

Sequence 438

TATAGGNCGAATTGGAGCTCCACCCGCGGTGGGCGGCCCGCCCGGGCAGGTACGCGGGTA  
GGGATGCAGAACTGGCCACAGTCAGGGCTGGCCAACAAGGGATGGGATGGCAAGGGAACC  
AGTGGGAGACTGTTTACACCTTTGACTTCTCTTACAGGTCAAGGCAGGACTGTAGCAT  
TAGGTCTCAGAGATGCAATGAACAGGACAAATACACTTCCCCCTTCATCTGGACCTGAGGC  
TCTGGGCAAGTCAGTACCT

Sequence 439

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATTAACCTGGGGCTAAATC  
CTGTAAATAATTTAGCCAAGAGGCGTTTTCCCTTCTCATTACCAAAATTTCTTTCC

Table 2

GTTT TAGGAAGTCACAAAACGGTAAGAATTTTCAGTCCCCTTCCTTGTCTGTAAGTGTCAA  
TCAAATTACAGAACGGAAAAATGTCAAGAGGATCCAGGAGACGGCACCAGGAAGCAGCAG  
AGACCTGGGCGATCCACAAAGGAGCAGGAGAGGCCTGAGCAGGCAGGGATGGCCAGAACA  
CAGCCCTGCACTCCTCTACCAGTGCCTCAGCCTGCAGCAAGCTCAGCAAAGGCACAGTA  
AAAAAAGTGAGCCATGCCAATTTAAGTGTGTGCCTTCTGCGTGCAAAGCACACCAGGGGT  
TACAAAAACCTGGCGTTCTTCATGGCTAGGCAGCTCTACCTTGTCTTCTTCCCTTCA  
TCAAAAGTCAACAATATCCTCTTATGTTTTTCATATAGCTGGCTGCAAGTATATTTTCA  
AATCAAATCTCAAACCTCAAATAAAAAATGAAGTTGGGTAGCCTTTGACATGTATAGAAAT  
TTACAAAGGGGGAAAAAA

Sequence 440

CCGCGGTGGCGGCCCGCCCGGGCAGGTACGCGGGGAGGGGGTAAAGTGGACTGGGGAGAAC  
TTCGGAGGATGTTTCATGTCCAGGAGCAGCCCCACGCCCTGTATGGTCGGTGTCTAGAGCC  
TCACAGCAACTAAGGCCAACCCAGCTCTCAGAAGAAGGAATGTCAAATGTCATGTTCAA  
TTTTACATTTCAGTGCCTGGAATCTTTTCTTCACAATTGAAATGAAATGTGCTGAAGGAGG  
TGAATCCATGCATTAATCTTCAGCTCACAAAGGAAATACTACATAAGAAGCAAGGAACAC  
GCAAGAGATCTACAGCTCTGATCTCCAGGATAGTGAATGAGGTGGTGAATGATAAGGGT  
ATAATTTAGCCAGCTCAGTGAATAAAATCATTGCAAAATGAAGCAGTAGCACCAGACCA  
CAGACTCAAGACGGACATAATTGGATTTTTTTGCCATGGCCTGGAAAGAAAGGTACCT

Sequence 441

AGGTACCTCCGCATCCCTTTCTCCCCANGTGGCTNGAGTGGCTTCAAGCTCTAGCACTG  
CCTAACAAACAAACAAACACCTNAGTGACTTGTGATTTCCCCCAGAAAAATATCTATTA  
ATTATTTCCCAATGGTCTCCACCTCGGCATCAGGGCACAAGGTGTAGGCACATGCTCTGA  
TCTTGACCTAGGAAACCGTCATTATCAAGGGCATCCCCTAGTCCACTGTGCTCCCCGGT  
AAGTACCTGCCCC

Sequence 442

TACTTTTAAACCAGGTGAGAAAAATTAATTATGTATTCTAACAAAGTAATATGTGAGAT  
TTTGAAATGATTTTATAGAAATACACAAAATAACTCTTTAGCTTGCTCTGAGCATTTTT  
TTCTTTCTGATAGCAACTTTTAAACGTTGTGGATCCACAGAACTTACTGCTTTGCTTTC  
TCTTTGGGGTCATAATTCCTCTCCCCTTGGAGTGTCCACTCCATGCATGTGCACTTAGG  
ATGTGTGGCTGTGTGTGTGTTGGGAACCTCACGGACACATAAGGTTCTATTGTATCA  
AGTAGAAAACCTATCTCATTATCATTATAATGTCTTCAGATGCTTTCTAAGGTTACCTC  
TTTTTTAACATTAGAAGTCAGTGAATGCAGCTTTCATTATAATTTTTAATACTTTAAAT  
GTTTTGTATTANCTGCCANAATGCTCAGCAGCAAAAGTTATGACTCACTTCTAGCAAGT  
GTGGTAGTTCTTTGCTTNAAGCATTGGGTTTCATGTAGCTTTTCTTCTATTTTTCTT  
TGG

Sequence 443

CCGCGGTGGCGGCCCGCCCGGGCAGGTACTGCCAATTAGTTGCTTAAACTTTTTGTCAAT  
GTTAAACTGTTTACATGGCTTTTTAAATGGGGGAAAAACAATAGAAACATGCTGTGGT  
GCAACGAATGAATACAGTGTGATTAACAACCTTAATTTTTTTTTCTGTTTCAAACATCC  
ACCTATTTTAGCATTTTGTATACCCATAGGTTAAAAATATTTACATTTTCTTAGAAAA  
GTAACCTGTTTAAAGAACAAAAAGGCCAAGCGTGGTGGCTCACATCTGTAATCCAGTAC  
CT

Sequence 444

GCGGCCCGAGGTACTTTTTTTTTTTTTTTTTTTTGTAGAGACAGGAGTCTCCCTATGT  
TGCCAGGCTGTTCTTGAACCTCTGGGCTCAAGCAATCCTCTGCCTTGGCCTCCCAAAG  
TGCTGGGATTGCAGGCGTGAGCCACCATAATTGAAAAAGTAACCCCTCACGCATCCATC  
TTTTCTACTGTTCTTGATAGGAGTTCTGTTTCCCTAGTCAGATTCCCCCATTCCTCACAA  
CAAGTCCCCCGCTTCAAAGCAGGCCTCCTTCCACTGCCCTGAGAAACCGGCAGTGGGAAC  
ACGCTCTACTTCTGCTCAAGCCCCTAAAGCCGCCCTCCTCCCTAGCTAAGACCAGTCA

Table 2

TTCTACCTGGGCCCTAATCTACGTCCCACGTCTGAAGGATCGCATCCAATCATCTGCTC  
TCCTCCACTGTGTAGGCAAGGGTCTTCTTCCACTGGCCCTGCTGGGAGAGATCTCTCCCA  
TCTGAAATGCCCTTTG

Sequence 445

CCGCGGTGGCGGCCCGAGGTACCTCTCATAAACTTTGTTTCATTAGCCACTTGAAATAAG  
CCACGTGGCTTATGTGCCACGCAAAATTTAGTAATGGGTTTTGGGAGTGTTAGATAGC  
AACAACTTCATAGACTGAACCTTTTGGTTTTTTTCTTCTCTCCAACTCAGAGGTTAAA  
AATTAACCTGAAAAATCAATGCTGCAATATGAATGCGCTGTATGTTCTTGATGGACTT  
GCAGACACTCTGTAACGGTGTTTCCAGTCTCCAGCAGTTCATATTGGAAGGTGAGCTTTT  
ACATGGACAAGCCCTTTGCGTTGCCAAGTAGTAGTGATATTACAAGTTTAAAAGACATTT  
AGATGATAATTCCAAAGGCCCTCTTATCTCCAAATCCATCAGAAGCTACCTATAATTTCA  
GTGCAATGAGTGCTGGGCATAGGTGGCCATTCAAGTGAGTGAGTACCTGCCCCG

Sequence 446

CGAGGTACTCAGAGGTTTCTGGCTCCAGCCATTGCTCTCGACCTCACAGCTACCCATTG  
GGCCAAGCCACCTCCAGCTCTCACCTGACTTGCTGCAAGTGGTCTCCAAGAGGTCTCTCC  
ACTCAGTCCCTGCCACCTTCAGCCTGTTCTCAGTGGAGGGGGCCAGAGTGACCCTGTTAA  
AACATGAGACCTTTACGTCCAACCTCAGCTGAGACTTCCCCATGGTTCCTATCACACTC  
AGGGTCAAAGTGAGAGTCCCTAAGATGAAACACAAGTAGGGAGAATGCCCTTCTCAGCTG  
GACTGGGACAGCTCCAGGGTATCCCTATTGTCTTGACCTGCCCCG

Sequence 447

CCGGGCAGGTACGCGGGACTATAAAAAATAACATGTTTCATAGTTTTAAATTTTAACCAG  
TGAAGAATAGTATAAAACGAAAAATTAGTCTTCTGTCCTGCTAATATTTATGCTCATTCT  
GTTTCTTACATATGCTTACAAAAATGTTCTTGCAATATATAAATACACGTCTTGTCTATT  
TTTTATGTTTATGAACTAGGATCATACTTAAGATTCTGCTTTTTCTTTTTCAATATAT  
CTTTGACATCTTTTTTTTTTTTTTTTGGGCGGGGTCTCGCCCTGTCACCCAGGTGGAG  
TGCAGTGATGGGATCCCAACTCACTGCAACCTCTGCCTTCCAGTTCAAGTGATTCTCCT  
GCCTCANTCTCCCGAGTGGCTTGGACTGCAGATGTGGGCCACCATGCCCTGCTAAATGGT  
TTGTACCT

Sequence 448

AGGTACCTGTCTCATTCTGGCAACTTGNGACATTTCTCAATCCAAACAATATCTTTAAGG  
TATTAAACCCTATGTTTTTGGCTGAAGAACTGACCTCAGAAATGACAAGCAATGTATCT  
AAAGAGCAGTAAGTAGGCCGGGTGCAGTGGCTCACGCCTGTAATCCCAGCACTTTGGAAG  
GCTGAAGCGGACAGATCACCTGAGGTGCGGAGTTCGAGACCAGCCTGACCAACATGCAGA  
AACCCCATCTCTACTAAAAATACAAAATTAGCTAGGTGTGGTGGCAGGCACCTGCAGTCT  
CAGCTACTCAGGAACCTGAAGTAGGAGAATTGCTTGAACCTGGGAGGCGGAGGTTGCAGT  
GAGCTGAGATCACGCCACTGCACTCCAGTCTGGGCGACAGAGCAAGACTCTGTCTCAAAA  
AAAAAACAAAAACAAAAACAAAAACAAAAACAAAAACAAAAACGNAAGTAGCAAATCT  
GAGATTTGAATTGAGAATTGACTCTAAAAGCCCCATGCTG

Sequence 449

CCGCGGTGGCGGCCCGAGGTGCTAGACAAGAGGTCTCTCCATCAACCTTCTCAGGTGGAAG  
TCTTCTTTTAGAAGGATGTTTGTAAACCCTTTTGCATCAGGAATGACAGTCCAATTTCTT  
TCTGTCAGTTCCTGTTCCAGAACAATTAGGGTGAGTCATACGGAGTAACCTTGCCATAAA  
AATGGAATTCGTATGGGAATTGTATGAAGGCCTTCTTACTGAAAGTCATTGAGATCCTT  
TAGATGATGTGTTTGTGATTCTTATGATTTAAATACATGCAGAAATGAAAGGATGCAAC  
GCAGTGCTAGAAAGCAATTTCTCTGCGTTTCACTCAGGGTTTCTGTAGCCACTGCTT  
CTCTCCATCCATGGACATTCTCCCTCTTCTGGTGAGTCGTCC

Sequence 450

CGCCCGGGCAGGTACATCCCACTGAGAACCACTGAGACAGATCCTGTATGGCCTTGTGGT  
CATAAATATGATTTTGTCTAAGTGTAAGGAAGAAGCCAGTAGAGAGCTATAAACAGAGG

Table 2

AAATGGCATATTGCCTATTTCTAGAAGGCCATGATCTAATTCCTATTTTTTTTTTTTTT  
TGAAATGGAGTCTTGCTCTGTGGTCCAGGCTGGANTGCAATGGTGCGATCTTGGCTNACT  
GCAACCTCCACCTCCTGGGTTCAAGTGATTNCNTGTATNAAAAAAAAAAAAAGTACCT

Sequence 451

AGGTACGCGGGGGGAATGGCTTGTGCCNTACCCNATTCTGATCGGTCACTGATGCAGGAA  
ACAGGGAATGGCGTGCCTTACCCCATTTCTGATCAGTCACTGATGCAGGAAACAGGGAATG  
GCTTGTGCCTTACCCCATTTCTGATCAGTCACTGATGCAGGTAACAGGGAATGGCGTGCCT  
TACCCCATTTCTGATCAGTCACTGATGCAGGTAACAGGGAATGGCGTGCCTTACCCCATTC  
TGATCAGTCACTGATGCAGGTAACAGGGAATGGCGTGCCTTACCCCATTTCTGATCAGTCA  
CTGATGCAGGTAACGGAATGGGCGTGCCTTANGCAAGGCTTTGCTTTCAGATGAAGCAGG  
GCTTAAATTTGAATGACATGAGGGCTATTTATGCCTTCTGGGACTCCAGATGGCGCCT  
CATAGGATCTCACACAAGTGAATCATTTATATCATGGGTTCTGTCATGTTTTAGCATGTT  
AACAGATATGCCAAAGTGAATGGAGAATCAATGAAAAGAAAAATAATGTATTAATGGAA  
ATATTAAGAA

Sequence 452

CCGCGGTGGCGGCCGCCCGGGCAGGTACCCCAAACCAGGGGCTGCAGCTCCAGCAATTG  
GGAAGGCCAAGTTTTCTTGACGCTCCCCAGAAAAGGGGCCAAGTCCATGGGGCTGAGCA  
GTGATAGACTGCAGACCTCACCACCTGAACCTTGTAGGATAAGGCCCACTAGCCTGGG  
ATGCTAGTGAGGCCACCCTAGTCCTCCTGAGTTCTCCAGCTGGGAGCAGCTCTACACTTC  
TCCGGCATGCAGCTCCCAAAGAGAGAGGCGAGTCCACCTTTTTGCTGTCTCGCAACCTCC  
CTCCTGCTGCTCTCAGGCTTGGGAGGGTGCACAGCAATTAGGGACTATCACAGAACCCCA  
GCACAGTGCATCTGGTGAACCTAAAAAATCAACAAGTGAAAAACAAACAATCCCATTTA  
AACGTACCAGCAGAGGTTTCCAGGAATCTCATCATGATCCATACTACTGACACA  
GACCTTTGTACCTGAAGCATTCTTAAATAAGGAGACTGACATTAAACAGGA

Sequence 453

GCCCCCGGGCAGGTACTTTTTTTTTTTTTTGCACCTCCAAACCAGCTATGGTATGTG  
GGAGTGCAAAGCCTTTGACAACACAGAGCTTAGGAGCATATGCCCTTACCACTGTTCTTG  
CAGCCTTGGCAATGTGTCTAGTGAGAGGAAGGGGGACAGGAGGGATGGCTTTCGTCCTTT  
GGGTAAGAACTGTGCCCAGCCAGAGGGGAACATCATGGCTTCTGCAAGCAGAGTCCAAGC  
CCCGCTGTTTATAGTTCAGCCATAATGGTACCT

Sequence 454

CGAATTGGAGCTCCACCCGCGGTGGCGGCCGCCGGGCAGGTACCCAGGGAACAAATGCT  
ACTGGGACTCCACACCTACCTAAGAAGCAGCTCTACCCAGACTCCACATGGCTCTCTGTT  
TTGGTCTGGAGACCCAGCTGGGGTATCTCCTGAGCCCAGGGATTCAAAGGTTCTGTGGCA  
GAAATATGCATCCCACGGGACTCTCACTCACTCACCATTTTCTTGTAGGGGGATTCCCT  
GGGTCTGTGCCACTCCTGGGTGAATGGTTGATCTGTCTCACTCTTCTCCGTGATCCGAAG  
GTCACACTATGTCACCTGATGAATCCTTATGTGTC

Sequence 455

CGAGGTACCCTGCTGAAAGATTATTTCTAACAGGCTTGTAGAGAAACGTCGGTTCATGTA  
AATTAGAAATTATGGGGCCACTTTGCCATTCTTCACACCTGCAATGAACAGGTGTTTATC  
TGCAGTTCTGACTTATCTTTGAACCTCAATTTGCATGTTATAGTGGGATGCAGCTGATGC  
CCTGTCCAGATCTTCTTCAGGCCACTACATCTATATGCATTTCATATCCAGTGGCTGT  
GAGTGTGGCTGTTGGTTGACAGAGGAGCTGCATCCTCCTGGAGGAACTGAACTCAGCT  
GATGAAAGCCACCTGGTCCTGGAGGTGAAGCATCTTCCAAATGACAGCCTGCAGTCAATG  
ACTGATGAATATGACTTCATTGCCTCATGACAGGACCTACTCTGGGGTATAGATCATGCT  
TCTAAGCTCCTCCTGGGGTCTGCTGAGGCTCAATGGCCAGCTTGAAACCATACCTTGC  
TCACATACTTTCCCTCTCTTTTCCCTTTTNCCTTGCTTNCNTAGAAGATTNCCTCCTGCA  
ATGGCTTTCCTCAAAAAAGCA

Sequence 456

Table 2

CCGCGGTGGCGGCCCGAGGTACTTCCATCAAGTCGAGGGAGTAACGCAAAGTAGAATAGT  
AGCCATCTATTAAGGATAGTTCTGAGGTTTGGAATTTGTAAGTATTTTAGGAGCTACG  
ACATGAATATCATATCAGGTAGAAATACTCAGAGTGATCACCTTTTATGAAAGTTAGTTC  
TATCTTTTCATGTCTAGGAAATATAACAGTGAATGTTTGCTTTTTGTATGTTTTGTCTCC  
AAGCAGAGGAAAGTACAGTTTTATGTTTTAGGTGCCGAAAGTTGTTTTGGCTAGACAG  
TTCCAGAGTTAATCACTGGGATGCTAAGTTGAATTTTTGTCTTTAAATGTTTTAGATTT  
TTAAACGAAATATGCTTCCGTTATTTCCAAAGTACACCTTGTTCTGGATTAAGTTT  
TTAGAGAAATGTTTTCCAAATCTCTTGGATTACTTGAAGTCCATTGATTTTGAATATT  
TAGTTTAAGTTTTTTCTTTTAAAGCTTATCAGAAAGTAGAGGAAGTACCTGCCCGGGC

Sequence 457

CCGGGCAGGTACAATGGGTGTTCAAAATTTCTCTGTAGGGTTGAAAATTTTCAAAATAA  
AAAGCTGGGGATAAGATGATTTGGGTGGGTCTGGCCAGAAATAATAAGAGCAGGATTCTC  
AGCTCTCCTTTTTTGCCACTGTGCTTCTGCAGTGGGACTCAAAAAGAAGTACCT

Sequence 458

AGGTACAATGCCCTTGGAGGGAGAGGGGNTTCNTGGAAAATGGTTGCCATGATAGGATTT  
GGGGAGAACCTCTATGTTTGAGGGAGTTTGGGTACGGACCTATCCGTGGAAGCAAAAAGT  
AGTGCCCAAATATTCAAAACATAGTTTGGTGAAAGATCACCTATGATTCTGAACGAAATA  
GTGTAGANNAAGACATCTGGAAGTTTCTATTGAAAAAAGAAAGTGTAATCAGATA  
CTTTTGTTTTTAAGGCTCTCTTTCTAAATTTCTAAGTTGGCCAAAATGTCAATGGTAC  
CTGCCCCG

Sequence 459

CCGCGGTGGCGGCCCGAGGTACTTAATGAAACATTCTCACTTATGTTATGCTACTTGAGA  
CTCAGAACAACTGTGGGAGCTTGGGACAGATGACTTCTCATTTTCCAGATGAAGAAGTTC  
GAATCCAGAGAAGTCTAGGATAAATAAGAAGGAAAGGAAGAAGGAATAGGAAGTGAGAAA  
GAGGGAAAAAGAAAAAGTGAAGAGCTAGTAGAGAAGCAGTTAGAGTCTTCCAAGGTC  
CTGAGCATGTTTAGTTTAGGATGGAGGGAGGGAGTTCTCAGAAGAGAAAGCAGCAACTC  
CACACCATAGGTTGAGGTGGGTGGGCAGAAGAGGACATGCAGGATATGACTCCTCCTCTC  
CAGTAAGCACTGAGCGACTCTACTGTCTCTTGCCTTCTCTGCTCCTTTGCTCTGGGTC  
ACCAGAAGTGGACTCTTGTTCCAGCCTCCCACCCTGACAAGGAGCTCGTAATCATCTCCT  
CCTT

Sequence 460

AAACCCAGAGTAGGGAGACAGGGAACCAGCAATGTCAGAAGGAGCCGATATTTTGCATGG  
AGCTAAGGCTTCTGCTCATCATTTCTCCTCTAGGAAGCAGGAAGCCATTGAAATCCATCC  
CTAATGTATCCCAAATGTCCACTTGCTGAGGGCNGGATTGCACAAGCAACAATCTTTTGC  
TCATGAAGCTTAGGGAGCACTGTCCCAGGGTATCAATTGGCCCAAAGCTGGTCTCTTCCT  
ACAGACCATGCGGCAAATCAGAACATAAGAGGACTTGAGGCCCACAGCCCTGAGTTTCAA  
TTCCAGTTCTGTATTTTAGGTCTGTGTTGTAATAGTATCATAATTAAGTGAAGAAGTT  
ATTTAGATTTATTGAGCCTCTTTTTTGTAATGGAATGACTATTCATATCAACTGCAGAAAA  
ACCAAATCCCCCAAAAAACCTTGCTACTTAATACAAAAACCTAAGTGCAGGCACTTCT  
ACTTTGCGTGGGTGACAGAATAACCCATCACTATTCACCACCCAAAAACAACACC

Sequence 461

CGAATTGGATTTTCCNCGGTGGCNGCCGCGCCGGGCAGGTACGAGCANTATTGCTTATCA  
GAACACACCAACAGTCTTTTTTAAATTCGCTTTTCCCCTTTGGTTCAGCCGAGCCTGC  
TGACAGATCAATCAAATCAATTGTTTATGTCTAAGCCGAACAGCTAATTAAGTAGGG  
ATGATTAACCTGACTGGCAGTGCCGCTCTCCCTCTCGCGCTCTCTCTCCTTCTCCTTTTC  
TCTCTCTCCTCCTGTTCCAATCAAGTCTTTTTCTCACACACTCTCTCTCTCCGTCTC  
TCCTCTCTCCTCCTCTCTCTCTCTCTCCCCCCTCTCTCTCTTCCCCCTCTCTCTTC  
CTCTCTCTCAGTCTCTCTCTCCTCCTCGGTTGGTGTCTCTCTCTCTCTCTCTCTCT  
GTCTCTTGCTCTACTGGTTTTTTTCTCTCTCTCTCTCTAAACGTGGTCTGCTTGCTGAT



Table 2

GGCAGAATGGCACTCGGAGATTTGTGCATTGTGTCTGGTTTCCTACGGGCAGGCTGACCC  
AAGTGCCTCCAGGGACTTATCAATAGACCACTCAGAAGAGACCAGACAGGAAGGGANGAA  
GAAGGGTNGGGGAGAAAAAATCNAATTCNNGAATNGAAGGGGCTCCGAACCATT  
TTTTTTTAAAGAANTATNNGGAAC TTGGAAGANGGGGACAAAAAAGGTTTTNAAA  
ANAGGNNGGGNGGAGGTTCTAANAAATTTGGAAGGAAACANTTCCCTGNNTTGGGAAAA  
AGGAAAANTCCNGATTGATANCATTNACCNAGGTTTGANAANGGTNNNTCCCCCTTANA  
ANNGGGNNGNACCCNAAATNGNAAAAANCCTTTTTT  
Sequence 462  
GGCGAATTGGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACTGAACTGGGAGGGT  
TTAGTCTGATAGCCACAATTTTGACCTAGGCAGGAAGCTTTACAGCTTGAGGCAGTTTC  
ATGGTCTGAAGACAACTTCTTGTGACTTGCTGCCGGTGTGGACTGCAGGAGAGAGCCT  
CACTGGGTCAAGGACACNAGAACAAAGTGGATCCAC  
Sequence 463  
CGCCCGGGCAGGTACNCGGNACACTTCTCTGATGCCTCTTGGGCAATTGCTCTGTTTTCT  
GTTNCCTTGAACATATGTATACCTCTACTATAGCTATCACATTTTATTGTAACTTTTT  
TTCCTCACCAGCCTATCGAGCGGCCGNC CGGCAGGTACTGTCCGGACATACCCCTTNCA  
AGAAGAAGCATCTCTTTGGCCAGATGTTTGTAAATTAAGGGTCTAACAAATAATTCACCT  
GAAATC  
Sequence 464  
CTTAAACACCACTATTTGTTGAGATGAAAAAAGCATATATAGGAAGCCTTCAGAATGAA  
ATGGTCAAGGGTGAGTTTACACAGATAGATAGATTTAGGTCTCTTCTTTTGCTTTGTGA  
AAGCATCTAGTGTTTTAGGTGTCAGAGAGGGAGATATCCTTACAAAGCAGAGATTATCAT  
TACAGGTTTACATTTCTTACAAAGAGTTTCAAATAAACAGGTNAATGCCAAAAACATAT  
ATTTGGAGACNGATTAATTCAGTGTGGTCTATTCA  
Sequence 465  
NCGAAATTGGAGCTCCACCCGCGGTGGCGGCCCGAGAGTCTCCCATGGTGAAGTGTGGCGG  
GAGATGGAACCATGCTGGATGTGGAGGGTTGTTCTACCTAGGAGGCCTGCCCTCCAGT  
ACCTCGGC  
Sequence 466  
CGCCCGGGCAGGTACTGAAAATATGAAAATTGCTTAGGCCAAAGAATGGGCTTTTCAATA  
GCACACTGCAAACTGGGCCCAAGTATTTAAAACATCTCTAAAAAATATCTAGGTTGGCA  
GGTTTTTATCCCTAGTTTTAACAGTCTGAAAGAGGGTTTCGTTACTGAGCACTGGAAGTGA  
TGAAGACAGAGTAGCTACAACATAGGGGCTGGTAGGCAGCAGAGCCTACCAACAGCCTT  
AATTTGTGTGGTGTCTTACAGGGCAACCCTGGGAACGATGGTCCCCCAGGTCCGCGATGG  
TCAACCCGGACACAAGGGAGAGCGCGGTTACCCTGGCAATATTGGTCCCGTTGGTGCTGC  
AAGTGCACCTGGTCTNATGGCCCCGTGGGTNCTGCTGGCAAACATGGAAACCGTGGTGA  
AACTGTAAGTTTGTGAATACCAATCCCTTCAATGCAACATTCTTCGTGGGGCTTTACTTT  
NTGACTTTCCACACTTTGGGATGGTGAAGAATTGGGAAGG  
Sequence 467  
CGCCCGGGCAGGTACCACCACACCCAAAGCCTGGCTCAGAATGAATTCAGCACCCATTCC  
TTGCTTTTTAAACCTCAAAAGTTCCCGACTCAGTGAAAGGCTTCCATTTTGCTATCCTCT  
TCTCTGTCTGCATTTTACTCTGTAAATTTATTGACATAGAAGAGGCCTCGTGCAGGCTTTC  
ATTGCATTAGTCCACTTGAAGTCTTTTCTCCAATCCATTTGACCTCAAGCTGCTTTTT  
GCTGCTGCTGCATGTAAGCTAGACTGATCCAGCTCACCTTATGCTGCTTTTGAAGGCTGA  
AAAGCCCTGTGACCAAATGTTTAGCANGCTGTTCAAACAGTGGACTGATGGTTTGATCTA  
AAGTCCGTTTCTGGCTTACACACACCTCCCATTTCCCAAGGGCAA  
Sequence 468  
CCGCGGTGGCGGCCCGAGGTACGCGGGATTCCCCAACAAGATGAAGTCAAAATTCCTTAA  
TTATAGAATCTAGGAGGGCTGTGATTTCTCTGAGTAATGGATTATAGCAGAAGCGGTGCT

Table 2

AAGTCGTATACAAGTCTGGGTAATAAAAGATGATGCAACTTCCACTTTGTTCACTAAAC  
ATTTACACTTGGAGCTCTGAGCCACTGCATTAGTAGTTTGACTACTATGAGGCCATAGCC  
TTCTGGCAATGCTAAGCTGCACAGAAAGGCCTCAGGTACCTGCCCG

Sequence 469

CCGCGGTGGCGGCCCGCCCGGGCAGGTAATAATTAGATCTGCCCATCCGTTACTTGGCAG  
AGGAATGGGCTGGAAATGGGAAAGGGTCAACCTTTCACCTGCTGGACACTCAAGGTGAGA  
AGAAAAAGGAAAGGGGCCAAGAACTAACTGTCTGGCTAGACAGTAATCATGGACTCAGGC  
TTTAGGTATTTGATCTTTTAGAATTCGAATTTCTGAAAAATAAAGGTGTTATATGTAATT  
AAATGGTTGGAAGTGGGAGGAACCTTCACATTTAAATAGAAAATAAAATAAGCCAATGA  
AAAGAAAACACTCATAATTATCCAATATAATTTTTTTATAGTTCATAGATTAATAATATAT  
ATATATATCTGCTGCATCCTTCCAAACATATTACTTTTACTCTTAAACCAGCACCCTAC  
TTATTTTCTATAATAGTGTATTCATTTTCCATGTTTCTGTTTCAGAAAGTGTAGGTAGAAA  
ATGTATGAACCTATCCTTANGGAAAAATTNCATTCTCTAAACCACATGACAATTCCTCAGT  
GGGGATATTCCTACTGTTCCAACATGAACAAAATGCCCCC

Sequence 470

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACCCACTCTGTGCC  
AGGCAATGAACAACATGGGCAAATAGCCTACCCTCATGGAGCTTACATTTTAATAGGGAG  
ACAGTCAATAAAGCAAACGAACATGCAAATAGATAATGGACTGTCAGTTGGTGACAAATG  
CCATAGAGTAGGCTAAGATGCTATTTTAGAAGGGCTTGAAAGTCTTCTGCATAGGGTAA  
TATTGGAGCAGAGACTAAATGGTGGAGGAGAGGAATATGGGACTGTTCANAGGAAGAATA  
TCCCTGGTGAGGGAACCTCAAGTATAAACACACTGAGGCAGGAGCATGCCAGATNCAAGG  
ATGACANGAAGGGCAGTGTAAGTGGAGCGCANTGAGCAGGGCAGAGAGTGGGTAGATACA  
TGTTTATATCTGCATCTCTAGAAGTTCAAGGGAGC

Sequence 471

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACTTTTTTTTTT  
TTTTTTTTTTTTTTNGCGATGGAGTCTCGCTCTGTCAACAGGCTGGAGTGTGGTGGCGCA  
ATCTCGGCTCGCTGCAAGCTCCGCTCCCGGGTTCAAGTGATTCTGGATAATCTGTGCTA  
TCTGATCAAACCTGTTAGCTCCAAGATGTAGAAAGAAGAACCTGTGGTATGAATATTAAGT  
CAGCCAAACAGCTTTACCCCTTTGTATGGGAGTGCTTTTTGCTTCCTGTAAATAGCCTTGT  
AAATGGTTGTTTTACAGAGAATTATTCAGTAAGGAGAAGCCATGGAAAAATTAAGAGGAA  
ATGATTTTTTCCAATAGCTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT  
TTTTTTTGAGANGGAGTCTCGCTCTGTCAACAGGCTGGAGTGNGGGNGGCGCAATCTCGG  
CTCGCTGNAAGCTCCGCTTCCGGGTTTNAAGTGAGCCCAAATCGNGCCATTGGAAGTCTA  
ACCTNGGGCGANAAAGCAAAAAAATTTTTCTTAAAGNAAAAAA

Sequence 472

GCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCNGGCAGGTAATATCAGCTCATCCCT  
GGCATGCACAACTGCTCANTCTGGCCAAGGCACCAACTCCCNAGGATAATGTGCTGCT  
TCAGTCATGCCAGGGAGCATACTTTTTGGGTGGGCCAGGCACCATTTCCCTGTGATG  
CTGGGANCTGCTTCAGCTTAGGTACCACTGCACTCCAGCCTGTGTGACAGTGAAATTGTG  
TCTCAAAAAATAAATAATGAATAAAGACACAGAATCTGCAGGATGGCTCAGTCAGTTGG  
AGACCCAANAAAGCCATGCTG

Sequence 473

GCTAATTGGAGCTCCCCGCGGTGGCNGCCCGCCCGGGCAGGTACGCGGGGAGAGCTCCAGC  
ATTTTCATCTAGGGGGAGGTGGAAGTGTGGCTTTTANAGATAAAAGGACAGGGTTGTTTTG  
GGGTGCTCTGAGAAGGGGAAAAGGAGACCAAGTGTATAACTTTGAGTAGCTAGAACGGGAA  
GATTTGAGGGGGCTGAATGAATTGATGAGAGTGATTTAACTTAAAGGACTGGGGCATTAT  
CTGTGGGCCCCGGGTATACTAGCTTCACTTTTGAGGAAAAGTGAAGCTGGGAAATGTGAGA  
TCTACTCAGTGGGTCCGGGGAAATGTGAGAGGAGTAAGGAAAGTGAAGACACAGATGTGT  
TGGAGGCTCCAGGNTAGCATGGTAAAGAGAAAGGGTTTCTNTGGAATCTGATTACAGAATG

Table 2

GACCTGTGGGGGGTCTTCANATTGAGGCCTNACANGCATTAAAGGAGCAACCTGNNTA  
NAACAGANGTTTGGGGAAT

Sequence 474

CTACTATTTGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCCGGGGGCCATTGAGACTGCCA  
TGGAAGACTTGAAAGGTCACGTAGCTGAGACTTCTGGAGAGACCATTCAAGGCTTCTGGC  
TCTTGACAAAGATAGACCACTGGAACAATGAGAAGGAGAGAATTCTACTGGTCACAGACA  
AGACTCTCTTGATCTGCAAATACGACTTCATCATGCTGAGTTGTGTGCAGCTGCAACGGA  
TTCCTCTGAGCGCTGTCTATCGCATCTGCCTGGGCAAGTTACCTTCCCTGGGATGTCCC  
TGGACAAGAGACAAGGAGAAGGCCTTAGGATCTACTGGG

Sequence 475

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCCGAGGTACAATGCCCTTGGAGGGAGA  
GGGGCTTCATGGAAAATGGTTGCCATGATAGGATTTGGGAGAACCTCTATGTTTGAGGG  
AGTTTGGGTCAGGACCTATCCGTGGAAGCAAAAACCTANTGCCAAATATTCAAACATAG  
TTTGGTGAAAGATCACCTATGATTCTGAACGAAATAGTGATAGATAAAGACATCTGGAAGT  
TTTCCTATTGAAAAAAGAAAGTGNGAAATCAGATACTTTTGTITTTAAGGCTCTNTTTC  
TTAAANTTCCTAA

Sequence 476

CTTANGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCCGAGGTACCTTTAGTCTTTAAACCC  
TGATTCTTCCCTTTTTTGGTTTAGTCTAATGGATGAAAAACTCAAAGTACTGATGTGGCT  
GTAATCTTGGGCCTGTGAGGTAGAACAGCAGAAAAAANTAGGAATTTAGAAGAAGAAGA  
CTTGGTTTGAATTTATCTCCTTTAATAGGTGTGTGGCGGCTGGGCACGGTGGCTCACGCC  
TGTGATCNCAGCACTTTGAGAGGCTGAGGCGGGCGGATCATGAGGTGAGGAGACTGAGAC  
CATCCTGGCTGACGCGGTGAAACCCCGTCTCCACTAAAAATACAAAAAATTAGCCAGGCA  
TGGTGGCATGCGCCTGTAGNNCCAAGCTAATCAGGAGGCTGAGGCTGGGANAATCGCTTG  
AACCCANGNGGTGGAGGNAATNGGTGAGGCCNAGATCGCANCACTACACTTCAGCCTGG  
GGCGACAGTAGGGAGACTTCCTCTTCAAAAAA

Sequence 477

AGCTCCACCGCGGTGGCGGCNCGGGGGCCATTGAGACTGCCATGGAAGACTTGAAAGGTC  
ACGTAGCTGAGACTTCTGGAGAGACCATTCAAGGCTTCTGGCTCTTGACAAAGATAGACC  
ACTGGAACAATGAGAAGGAGAGAATTCTACTGGTCACAGACAAGACTCTCTTGATCTGCA  
AATACGACTTCATCACGCTGAGTTGTGTGCAGCTGCAGCGGATTCTCTGAGCGCTGTCT  
ATCGCATCTGCCTGGGCAAGTTCACCTTCCCTGGGATGTCCCTGGACAAGAGACAAGGAG  
AAGGCCTTAGGATCTACTGGGGGAGTCCGGAGGAGCAGTCTCTTCTGTCCCCTGGAACC  
CATGGTCCACTGAAGTTCCTTATGCTACTTTCACTGAGCATCCTATGAAATACACCAAGT  
AGAAATTCCTTGAAATTTGCAAGTTGTCTGGGTTTCACTGCTAAGCTTGNTCCAGCTATCC  
AGAATGCCACACAAGAATTCAACTGGATCTGGAAGAGGAAAGAAACTGATGGTGGTAAGT  
AACCCATTGATTTGAGACCTACCAGGGCTGATGTCAATTCATTGGAAACCGCACAAACT  
GGCTATTNCCTTTCCCGTGGGGAAGTATTGGGTT

Sequence 478

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCCGCGGGCAGGTACTTATTGTATAT  
TTCTCACATTCTTTCAGAAAGTTATTTAAATGGCTTTACAGTTGCGTTGCTTTTTTTTAA  
AGAGAGAAGATTGAAATTTATTTTGCAGCTATACACTTGGTTTTGGATTATTCATGTGTA  
TAAGTTATTTGAGCTGCTACCACTTCTCTGACCTAAGGCTGTGGCTAAATGGGTTTGG  
AGAAGAAATTCTTGCTGTACCT

Sequence 479

GGCCGAGGTACCTTTCTTTCCAGGCCTGGCAAAAAAATCCAATTATGTCCGTCTTGAGT  
CTGTGGTCTTGCTTCTTATGTAGTATTTCTTTGTGAGCTGAAGATTAATGCATGGATT  
ACCTCCTTCAGCACATTTCAATTTGAAGAAAAGATTCCAGGCACTGAATGTAA  
ATTGAACATGACATTTTACATTCTTCTGAGAGCTGGGTTGGTCTTAANTTGCTGT

Table 2

GAGGCTCTAGACACCGACCATACAGGGCGTGGGGCTGCTCCTGGACATGAACATCCTCCG  
AAGTTCTCCCCAGTCCACTTNACCCGCTCTGGGCTCACCTCTGAATGTCCCCGCNTNCCT  
GCCCNNGCGGCCGCN

Sequence 480

TGGCTAAAACATATTCCATTTACTTGTGAGGACTTACAATTTCAATTCACGTGCATATAA  
AATTAGTCATTTTTCAAATTCACATTTAAAAATCATATCCAAGGCAGCATTTTCCACTCA  
ATTAACCCATGTATTATTTTAAATCTACAAACCAACATTTGAGCTACAGATTTTGAAAAG  
CCAATTGTTACTATTTTGTAATAATCACATTTCTAGCCACATAAATTAACAACATTCCTG  
AAAAACATAAGAATCAGATATAACTCTGCAGTAGGCAATCCTGGGTNCTGACACTGACTT  
TNCTACCTGAGGACAACCACATTCAAACCTGCAACCATTTGACAAATGGGGAGTCTCAAAA  
AGTACAGAAGATAGCAATCCAGATCACGGCAAAAAACATGGCTTTTTCTTGCCAATNAGA  
AAAAANAAAAAANTTAAAAAAAAGTACCTGCCCN

Sequence 481

CCGCGGTGGCGGCCGAGGTACGCGGGGGAGTTTCTAAGCCCCGCCTGCGGTCTGAGGCA  
CCGGCTGAACCATGTGCGGAGATCCTGTGCCAGTGGGCTCAACAAGGAGTTGAAGGTGTCC  
CGGACCGTGAGTCCCAAGTCATTTGCAAAGGCATTTTCCAGTGGGCTATCTACTTGGAGA  
AGTTCTACACAAGTTTGAACCTTNAAGGATGATTTTTTCAGAAATTTTTGGACANCAAGGGTT  
TCAAGTGCCAACTTAATAATTTTTCTCGCTTGAGCCAACTTACCTTCTGGGTGGTG  
CAAGNTTTGATCAAAATGTGGNCCATGGGCATCATCAGAAAAAGCCTGGGGTGGGCAAC  
AAAGCTGTTATATCAATTGTACCTGCCGGGCGGCCGCTCTTAA

Sequence 482

CCGCGGTGGCGGCCCGCCGNCAGGTACTTTTANAAGAGACAGGGTTTCACCATGGTGGC  
CAGGCTGGTCTCGATGTCTTGACCTCGTGATCTGCCTGCCTCGGCCTCCCAAAGTGCTGG  
GATTACANGTGTGAGCCACCACACCCGGCCTGAATTGCACTTTTGATGGCTGAGCCAAAT  
GCTCATTCTATTTAATATTGCACAGCCTGGACCAAAACCCGTAACATTATAAAGGAAGAG  
ATGAGAGCCATTTCAACTGTGAGAGAAGAGAAGACATCAAGCAAAATCTGGGGGTTTTA  
AGCCAACAGACTTCANTCCTGGGGCCTTGACAGCAAAAAACACCTTCAGTTGCCCCAGGG  
CTTTACAAGGTGTGGCTCGCCTGTTCTGTTGCTACACGCTCAAACCCCTGAGGGGAGGGG  
ANCATGCAGATGGACAGGTGCAGGAGCCTAAGTGGGAGTGTGTTACAAATGTGCCCTTTA  
ACCTGCTGTCCATGGATGGCTTGAATGTTAATCAAAC

Sequence 483

GCAGGTACCGCGGGTCCACAGTGCCCCCTTGATTGAGAACCCTCTTCCCAGCCAGAGGCA  
GGAAGAGGACGAGGCACATGAGCCTGGTTGGCATCATGCCCTAATCATGCCCTTTGCAGC  
CTTTTACTCCTTCACAGCCCACATGCTCAAGGTCGTCTGTCTTTCTGTCCCTCCCCACC  
TGTTCCAGTTAGATTTCTACTAAAGTAATAGTTAGCATTTTTGAAACAGTGTTGGCTTGT  
TTAATCCTCACCACAAACCCATGAGGTGGGTAAAGAGAGATGAAAGAACTTACAAGGTCA  
CACAGTTTACGCAACTGCTGCCTTTTCTTCTTGGCTTCAGGCTTGGGTTCTTCTCT  
TTGTGTCTGGCTGTACCT

Sequence 484

CCGCGGTGGCGGCCGAGGTACCTAGGAAAGGGTGACAGGTGCGAGTTTGAAACCCGCTT  
GAAGGGAGGAGTCACAGAGCTTGAAAATGCTAGTGCTAGGCCAGAAATGACTATCACTG  
CTACGAAGTCAGCAGTTATAGTGCCCTGGTATTGTGAGTCTAGTCAGACAGCCATTAAAAA  
TAACTTAGGATTTCCAGGTTTCTTTTCAAAGCTATACATTTTTTAAAAATTAAATT  
ATTTTAAAAACTAGAATATGTGTCAGTTCCATTTCTACATCTGAATTTAAGGTAAGCCTC  
CACTATCAATTCAGCTTCTACCACGGTATATTTACTCTCCCTTTTCACTCACTCAAC  
CACTCTGTTTACAGGCAGGACAACTGTGGGGGTAGCCAAAGTCCTTCTGTCTCCTACT  
GGGCACCTTCTATTCTATCCTCCAACCTGTCCCTGTGTCTCCAGGCANGCCTTGACCTG  
CCCGGGCNGGCCGCTCTAGAACTAAGTGGATCCCCNG

Sequence 485

Table 2

TTATGCTGCGAGATAAGTCCTCTCTTGGTTTGAGCTCCACCTTTTCAGTGAACCTTTAC  
ATNNTGGGGGATCTGCTCTTGTAAGGACATCCTTTCTGGTGAGTATTCTTTGGTTTAA  
TTTNTGGTNTGGTTATTTGTGCATGAATATAATCTCATTAGGAAACAAGTTAAGTTGAAT  
AGACCAACTAGTGAATTAATCCGTCACCAAAATATATGTTTTTGGCATTACCTGNTTAT  
TTTGAAACTCTTTGTAAGAAATGTAAACCTGTAATGATAATCTCTGCTTTGTAAGGATAT  
CTNCNTCTCTGACACCTAAACACTAGATGCTTTCACAAAGCAAAGGAAGAGACCTAAA  
TCTATCTATCTGTGTAACCTCACCTTGACCATTTCATTTTTGAAGGCTTCCTATATATG  
CTTTTTTTCATCTCAACAAAATAGNGGTGTTAAANTNTCTGTACCTCGGCCCGNTCTTAA  
ACTAGTGGATNCCCCGGGNTGCANGAAATTNGATTTTCAAGCTTATCGATCCCGTCCGA  
NCCTTNGANGGGGGGGGCC

Sequence 486

CGGGCAGGTACAGTGAAGCTTTGACCTGAGGAGCTCTTCTGTAGGTGAAGAGTGGTTAAC  
TATGGTTCCTGTGTGCTGGGGCCCCCACTCCTAGGACTCATCCACCCCTACCCAGAA  
CTTACTAGTACCT

Sequence 487

CTCCCCCGCGGTGGCGGCCGAGGTACCTTAGTAGAGCAGTTCCAAAAACCCTGCCAGTC  
ACTGCTGTGACCTGCTCCACAGGACTCAACCTGAAATTGGACATCGCTCCAGGAAAAT  
GGTGTCTTAATGGANCAGCTCCACATACATCTTNCAGTCACTCCTACAGCTTCCCCACT  
ATGCCAGAGCTAAAGCAATAACTGGCATCCAGGGAAATGATGCATTGACTGCCAGAGCA  
AGTTATATTCCAGTGCCTGGGCTGAAGCAGTCCCCTGTCTCCTGGGAAAATAGTACCTG  
CCCG

Sequence 488

AGTACCTTTCTTTCCAGCCATGGCAAAAAAATCCAATTATGTCCGTCTTGAGTCTGTGG  
TCTTGCTTCTTATGTNGNATTTCTTTGTGAGCTGAAGATTAATGCNTGGATTACCTCC  
TTCAGCACATTTCAATTTCAATTGTGAAGAAAAGATTCCAGGCACTGAATGTAAAATTGAA  
CATGACATTTTGACATTCTTCTCTGAGAGCTGGGTTGGTCTTAGTTGCTGNGAGGCTC  
TAGACACCGACCATACAGGGCGNGGGGCTGCTCCTGGACATGAACATNCTNCGAAGTTNT  
TCNCAGTCCACTTTACCCCGCTNTCCNCGTACCTGCCCCGGGCGCGCTCTAAGAA  
ACTAGTGGATCCCCAGNGCTGCAAGGAAATTCTANATCAAGCTTGATCGGTACCGTCTA  
CCTANGAGGGGGGGCCCGGT

Sequence 489

CCGCGGTGGCGGCCCGCCCGGGCAGGTACTGCCCTCCAGGGCTTACAGTCTGGTGAAGGC  
ACAGGCAACAGTAAGATGATGTGGTAATTACTGGGAGGGGGCAGGAAAGAGAGAGAGCAA  
AGCAGATTCCAGGAGAACAGGAGGGAAGAGGCTTGCGGGAATAGACTGGCATATGCAAA  
GGTCTAGAGGAGGAAAGAACCAGGTTTAAGTCAAAGAACTCAAAAATAGTTCAACACNGG  
TCAGACTTTTGGAGTCTGGTGAAGGGACAAGGATGTACCTCGCCCGCTCTAGAACTAGTG  
GGATCCCCG

Sequence 490

CGCCCCGGCAGGTACCCCAAACAGGGGCTGCAGCTCCAGCAATTGGGAAGGCCAAGTT  
TTCTTGACGCTCCCCAGAAAAGGGGCAAGTCCATGGGGCTGAGCAGTGATAGACTGCA  
GACCTACCACTGAACCTTGTAGGATAAGGCCCACTAGCCTGGGATGCTAGTGAGGC  
CACCTAGTCTCTGAGTTCTCCAGCTGGGAGCAGCTTACACTTCTCCGGCATGCAAG  
CTCCCAAAGAGAGAGGCAAGTCCACCTTTTTGCTGTCTCGCAACCTCCTCCTGCTGCTC  
TCAGCTTGGGAGGGTGACAGCAATTAGGGACTATCACAGAACCCAGCACAGTGCATCT  
GGTGAACCTAAAAAATCAACAAGTGAAAAACAAACAATCCCA

Sequence 491

GTGGCGGCCCGCCCGGGCAGGTACCATTATCATTTTTAGTGCAGTAATAAAGAAATTA  
GTCTTAACATTGAGCATTGGACAAAAACACTCTGCTTGGCCTCCCAAGGTGCTGGGATTA  
CAGGCGTGAGCCACCACACCTGGCCTGGGCTCCTGCACTTTAATTCAAGCCCTGTGACTT

Table 2

GCAGTGAGTGTGGCCAGGCAAGCACTCCCTGTCAGAATGGTATGATCCCTCTTTTCTGGA  
GGGCCAGCCTGCCTGCAGCACTGTTACAGGCTTGCAAGGTGCCACTGAAGAGACCAGTGG  
GAGTTTAATGTCTGGAATGTGTTCCACGTGGAAATATAATTACTCTGTCATCTGGAACAA  
GCGATTTTAATTGTTAGAGAGTTCCTCANTCCACTAGTTTGACTTTGGCCATGGTCGTAC  
CTCGGC

Sequence 492

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCCAACGTTTCGCTTC  
CTTTTGACCAATAAGATAATTTGCAGCTATGTGAGACAAACACGCCACCTCAGGCCCTGT  
GATGTGCATCAGACCAGAAACAGCCGAGGCAACAGCATCATAACCAGCTCGCTGAGAAAT  
TGGACCTGTCTGACCATACCCTGTGATGGAACAATAGATGATGTGAGGAGCAATCTCGTC  
TATATCTTCATATCCCAGGCCATTGCAGACAGTTTGCCAGGGACATAGTTTCCACCCC  
CGCGTACCTGCCCG

Sequence 493

GGAGCTCCCCGCGGTGGCGGCCGGGGGCCATTGAGACTGCCATGGAAGACTTGAAAGGTC  
ACGTAGCTGAGACTTCTGGAGAGACCATTCAAGGCTTCTGGCTCTTGACAAAGATAGACC  
ACTGGAACATGAGAAGGAGAGAATTCTACTGGTCACAGACAAGACTCTTTGGTCTGCA  
AATACGACTTCATCATGCTGAGTTGTGTGCAGCTGCAGCGGATTCCCCTGAGCGCTGTCT  
ATCGCATCTGCCTGGGCAAGTTCACCTTCCCTGGGATGTCCCTGGACAAGAGACAAGGAG  
AAGGCCCTAGGATCTACTGGGGGAGTCCGGAGGAGCAGTCTCTTCTGTCCCGCTGGAACC  
CATGGNCCACTGAAGTTCCTTATGCTACTTTCACTGAGCATTNCTATGAAATACACCAGT  
GAGAAATTC

Sequence 494

NCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGTAAGTTGA  
AGTCCAGGAGGGTTCAGACACAGAGCTTCTGGTGTCTTCTCCCTGTGGAGTCAGGACTC  
ATTACTCTGCTGTCTTTGATGTGTGACAACAGGCACCAACTATCGCCAACTAGAGAAAGCT  
CACCAGAGCTCTGATGTTGGAAGTTTTATTGGGGCCTCAGCATGTAGACATGATTGACT  
GGTTGGTGGATTAAGTGTCTACATGGTTAATCTTAGTGTCCAGGTCAGCTGATACTGCGT  
GACCAAAAGCTCCTACCCCGAATCCCTTGATTAGTATTTCTGGCATAGCAAGCCCCGTC  
AGAAACAAAGACATTCCTCTTAGAGGTAATATAGATTACCTTTCAANCACCAGGAGGGCA  
AAGGCCANACTACTTTTTTA

Sequence 495

CTACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCGCGCCCGGGCAGGTACTTGCCCT  
CTCTGAGCCCGCCTTGCTTCTACCCTGNTGACTGAGCACATTGGACTGGGTTCATAGTGG  
GTGATGGCCCCCTCCCGGCTCTGTAATCCCCACAACAGTCCCTGGTGCGAGTGTGAGGCCT  
GGTAGAACAGGGTTGTTTGAGAGATGGTATCTAGGCAAGNTATGTTTCTCTGCTCCAAC  
CAGTCCNTATTAGTCCCTCAGACAATGTGGCACATTCTGTTCAATTGTATGAA

Sequence 496

TCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTANCNNNANNTGGAGACTCTTTTGGCTT  
GCTTTTCTTTTAATTGGTTTTATAGAGAAAATATAACTAAAAGTAATGTCATATGAAAT  
AATGCATTGCTTATTAATAAATACATACTGAAAATATGCACTGTCAATTTAGATACTCGA  
TCATTTTATATTATTTGGCATATAGCCTACTTAATTCTGGAAGGTGGCACATGTCTCCA  
TCCCTGATAGAATATATTTGGCTATTGGGGGTTTCATTTTAGTTTATATTATTAATAACAA  
TGTTCAAAAATGTAACAATCTTCATTGATTAATATGGAAAAAGGTAATGGGGGGAAAAACA  
AATTTTTTTTTTAAATTTCAATCCATCGGAAAAAGTGGAACATATCTTTACACCGGAGNGT  
ACCATTCAATTTCAACCGGTTCTTNTGNCNTGNAAACCAAAAAGGGAATCTTTGGATTCTT  
TTGGGGATTTACCCCAAANAANAANGGNNTGGNNTAAANANGAAAAAATGCCCTTTTCT  
TTGCTTNCCTGGAATGGGGACCCTGGAATAAAATTTTTNAAAAANTTGNAACCTGCCAC  
ACNTTTGCAATCTTTTTTACCANNCCCNAAAAATACCGGNCTTTTGGGAAATTTGGCCA  
AAAANACCCTTCTTAGGCCAAAAAATNCCAAAGGACATNCCCTTGNGGGTCTTTTTTT

Table 2

TTNCCTTTAAACCCTCCAAAACCTCCAACANCCANAACCAAGTNGGCCTTTNTTTCAAAC  
CCCCAANACCCNNGGGGGCCCCCGGGCCC

Sequence 497

CCGGGCAGGTACCATTTTAGGCCAAAGCTATCCCATGACTATTGCCTAGAACGGGAGAGG  
TGAACAGAAGAGGTAGGGGCTGTGAATGCTTTCGCAAACTGACAAGCAGGGCGAAAGGG  
AAACTCTGGAATATGAGCTTCCAGACTGCACTTGCATCTTGTTTATCTCACGGTTCTCAG  
GGGCCACCACCTTACCTGGCACACCGAATGTGCCTGAGGAATGCTTGATGCACTAAACCA  
CAAATCAGTGCAATGGAATTGCCATCCCCAAAAGTCCTTTTAAAGATAAGAACGTATT  
TTCTGAAGTGGATTCTGATAGCTATTAGTTTTGGTGGTCTGGAGTATGCTTTTACTCTTT  
CTCCCTGATACTGGCAATAAGAACACATAGGTCCACAGGTTTG

Sequence 498

CGGGGCAGGTACTAGCTACTCTGGAGGCTGAGGCAGGAGAATGGCGTGAACCCGGGAGGC  
AGAGGTTGCAGTGAGCTGAGATCACACCACTGCACTCCAGCCTGGGCGACAGAGAGAGAC  
TCCCTCTCAAAAAACGAAACATGTTCTTGGCTGGGCGCAGCAGCNTNACCACCTGTAA  
TCCCAGCAAGGTACCTTTCGGCNCGCTCTTAGTAAGTAGATGGGATCCCCCGGGGNCNT  
GNCAAGGAAATTTCTGATTATCCAAAGGCTTTAATNCGAATACCCGGTTCGTACNCTTC  
CGNAGGGGGGGGGGGGGCCCCGGGTACCCCCAGNCTTTTTGGTTTCCCCTTTTAAANA  
TGGAAGGGGTATAAAATTTTGGCNGCCGGCCTTTGGGCCGTTAAAAATTCAATGGGGTT  
CAATTAAGNCTTGGNTTTNTCCCCTTGGGTGGTTGGAAAAAATTTGGGTATAATTCCC  
CGGCCTTTTCCAACCAAAAATTTTCCCCACCNACCCAAA

Sequence 499

CCGGGCAGGTACTCCAGGATTTATTTTCATCTATAGCAAGTTGAAGGAATAGCAAAGCAC  
CGTGGCAACAGCCCCAAGTGAATTTGGCTCTTTTCTGTGAGGCATTCCCCTTTCAA  
TGAGCATCCGCATCCAACAATAGCTTTATTTCAAGCATCCAAGCCCGGAGTCATGCCATC  
GCCTGTGCCTAGGAGACCTGGCTTTTGGAGGTGAAGCCAATGCAAGCCAGTATTTCTGCC  
TGCTGGCTCACTGCACCAGGCATTGTTCTCAAAGATGTCCAATCATCCTCCTTCTGGGT  
ACCTGCTTGCATGTGTGTGTGTGTTCCTATGATACAATATGTTTGAACCAGGCATCT  
CTGAATCAATCATCTCAGCTAGCATATTTTACTTATTGAA

Sequence 500

ACTNCTATAGGGCGNATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCACTCCGATCCCT  
GGTGGAGGTCCCCGCNCCTCTCTGGAGACCAGTGGTCTGGCCCCAGAGGT

Sequence 501

CCGCGGTGGCGGCCGCCGGGCAGGTACAAGGACAATAGGGATACCCTGGAGCTGTCCCA  
GTCCAGCTGAGAAGGGCATTCTCCCTACTTGTGTTTCATCTTAGGGACTCTCACTTTGAC  
CCTGAGTGTGATAGGAACCATGGGGAAGTCTCAGCTGAGGTTGGACGTGAAAGGTCTCAT  
GTTTTAACAGGGTCACTCTGGCCCCCTCCACTGAGAACAGGCTGAAGGTGGCAGGGACTG  
AGTGGAGAGACCTCTTGGGAGACCACTGCAGCAAGTCAGGTGAGAGCTGGAGGTGGCTTG  
GCCAATGGGTAGCTGTGAGGTGAGAGCAATGGCTGGAGCCAGGAAACCTCTGAGTACC  
TCGGCCGCTCTAGAACTAGTTGGGATCCCCCGGGCTGCAGGGAATTCCGATATCAAGCTT  
A

Sequence 502

CCGGGCAGGTACCCTGAGCCTCCTGTGCCATTCTTGCTAGCTGGACAGAAGACATTGCTA  
CTGAGCCAAGAAGACTTGATCTCTCTTACACCGAGGAAGAAGGGAAGGTCTGATGCAATG  
AAACAGCACGTTTGCTTATAATTCTAGATCAGAACCATAATAGTAATTTGCCTACTAACT  
ATGTAACATTGAACAACTACTGTTTTGTGAGCCTGAAAAGTTGGTACCT

Sequence 503

CACCGCGGTGGCGGCNCGCCCGGGCAGGTACGCGGGGGAGGGGGTAAAGTGGACTGGGGA  
GAACTTCGGAGGATGTTTCATGTCCAGGAGCAGCCCCACGCCCTGTATGGTCGGTGTCTAG  
AGCCTCACAGCAACTAAGACCAACCCAGCTCTCAGAAGAAGGAATGTCAAATGTCTATGT

Table 2

TCAATTTTACATTCAAGTGCCTGGAATCTTTTCTTCACAATTGAAATGAAATGTGCTGAA  
GGAGGTGAATCCATGCATTAATCTTCAGCTCACAAAGGAAATACTACATAAGAAGCAAGA  
CCACAGACTCAAGACGGACATAATTGGATTTTTTTGCCATGGCCTGGAAAGAAAGGTACC  
T

Sequence 504

GGNGGCGGCCCCGAGGTACGCGGGGGAGACACATTCAGAGGTGAGCCCAGAGCGGGTAAAG  
TGGACTGGGGAGAACTTCGGAGGATGTTTCATGTCCAGGAGCAGCCCCACGCCCTGTATGG  
TCGGTGTCTAGAGCCTCACAGCAACTAAGACCAACCCAGCTCTCAGAAGAAGGAATGTCA  
AAATGTCATGTTCAATTTTACATTCAGTGCCTGGAATCTTTTCTTCACAATTGAAATGAA  
ATGTGCTGAAGGAGGTGAATCCATGCATTAATCTTCAGCTCACAAAGGAAATACTACATA  
AGAAGCAAGACCACAGACTCAAGACGGACATAATTGGATTTTTTTGCCATGGCCTGGAA  
AGAAAGGTACCTGCCCCG

Sequence 505

CGCGGTGGCGGCCCGCCCCGGGCAGGTACTCACAGCTACATCACACTGAATATCATCTCCC  
TGCACTGCCATTTTCATTTGAGCAGGGCTTTGCCGTGCAAGAACATTCATATCTTTTGATA  
AACAGTGCATTTTTCTGATAGTCTGTATGGGACAGCCTCCTTGTTTGCATCTGAAGGAC  
AGGGACTTCAGGACCTCCTGCTGTGGTCACCAAGGAATCACATTCAAACCTCTCAACAAG  
GTGTTATGGTCTTCTCAGTTTGCCTACGATCCATTGAGGCAAAGGTTTCTTCTCTCAA  
TACACCCTCTGCTTTAGCCAGGGGGACCTCCCACTGNCCTCTCTATGTGTTCTATTTGTT  
CCTGACTGTTAGTACCTCGGCCGCTCTAGAACTA

Sequence 506

CCGGGCAGGTACCAACAACCTGCCAGGCTGCCAAGCAGTTTGGAGTATTGGAAAAAACGT  
TCGAGACTGGCGCAAAGTGAAGCCACAGCTTCAAACGCCCCACGCCATGCGGCGGGGCATT  
CCGAGGCCCAAGAATGGGAGGTTTGCTCTGGTGGACCAGCGTGTGGCCGAATATGTCAGA  
TACATGCAGGCCAAAGGGGACCCCATCACCCGGGAGGCGATGCAGCTGAAAGCTCTCGAA  
ATNGNCNAGGAAATGAACATTCCANAGAAAGGTTCAAGGCAAGCTTGGGTTGGTGTCTGA  
AGAATGATGAGAAGGTATGACCTGTNTCTNAGGCATAAAGTGCCCGTGCNCCAGCACCTG  
CCCGGAAGACCTGACTGAAGAAAACCTCGTCACTTTACCAAACGCAATGNTNCTGGCTNTT  
NCCANGGGCGCATTGAACATTNANGTAACCTCANATNGGNGAATGCAAGAATGAAAACG  
CCCCATTTGTTTAAAGAANGTGCCATTACGGGTTACTTNTTGGATTANCCAGGGGGCCAAA  
AAGGNCTGTCNTTGGGTTCAAGAACACCNAANCCANGGGGAAAAAACTTGA

Sequence 507

AGGTACCCCAAAACAGGGGGCTGCAGCTCCTGCAATTGGGAAGGCCAAGTTTTCTTGCAC  
GCTCCCCAGAAAAGGGGCCAAGTCCATGGGGCTGAGCAGTGATAGACTGCAGACCTCACC  
ACCACTGAACCTTGTAGGATAAGGCCCACTAGCCTGGGATGCTAGTGAGGCCACCTAGT  
CCTCCTGAGTTCTCCAGCTGGGAGCAGCTCTACACTTCTCCGGCATGCAGCTTCCAAAGA  
GAGAGGCAGTCCACCTTTTTGCTGTCTCGCAACCCTCCCTCCTGCTGCTCTCAGGCTTGG  
GAGGGTGCACAGCAATTAGGGACTATCACAGAACCCAGCACAAAGTGCATCTGGTGAAC  
TAAAAAATCAACAAGTAAAAACAAACAATCCCATTTAAACGTACCTGCCCGGGCGGCC  
CGCCCGGGCAGGTACTTTGCGCTTACTTTGTAGCCCTTCATCAAGGGTTTT

Sequence 508

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACCCACCTTACAATGTGGGACAA  
GATTAATTTAGGGAAAACACGTAGCACAGGGCTTCACCCATGGTAAGTATTTTATAAACG  
GTAATATTTTAAACAATGACAATTCACAGAGTNAATCCTAATAAAAAATGATTACAGAN  
GANGACGCCTCCACCCACAGGAAGGAGCCANCACNGTGGGGAGCTGTNTAACAGGGGAG  
TGTTCTCACAGCTGACACACGTGGAGTTGTGGAGGTATCAAGCAGAGTTGGAGGAGGAGG  
GGG

Sequence 509

CCGCGGTGGCGGCCGAGGTACTGTATAGTGATAAAAGGTTAATTGTATCAAGGTTACACA



Table 2

ATCCTGAAGCTTTACATGCCTTCAAAATACATAAAACAAAAATTGTCCTTAGTAAATCA  
GAACTAGACAAACCCACAATCACAGTGGGAGATTTTTATTTTATTTTATTTTATTTT  
CATTTTGTGATGGAGTTTTGCTCTCTCGTCTAGGCTGGGGTGCAGTGGCATAATCTCAGC  
TCACTGCAACCTCTGTCTCCAGACTTAAGTGATTCTCCTGCCTCAGCCTCCCAGGTAGC  
TGGGATTACAGGTGTGCGCCACCACGTGCAGCTAATTTTTGTATTTTAGTAGAGACAGT  
GTTTTGCCATGTCGGCCAGGCTGGTTTTGAACCTCCTGACCTGAGGTGATCCTCTTGCCTC  
GGCCTCCCAAAGCGCTGGGATTAACAGGTGTGAGCCGCTTTGCCTGGCCAGGAGATTTTA  
ATATACCTCTAAAGTAACTGACAAAACAACCACCATGAGTCAGTNAGGATATTGAGGATT  
TGAACCTCATCATGTACCTGCCCCG

Sequence 510

CGCCCGGGCAGGTACTTGGCACATCTGGAATGACGGAGTCTTTCAAAAATACTGCTGG  
GAAGATGACCTGTTTTCACTCTCTCTAGGCAGGTTACATCACCAGATGATGCTGGAT  
ATGGCTCCACTCCAAGGAAAAACAACCTTTCTTGGTCTTTCAATGGCTGTTTATGAGTAT  
ACAACAAGTGCTTTCTATATACTGCAAACTCGTTAGACAGACAAGTCCCTCTGTCAATCC  
CACTCTACAGTGCATATGCTTCTGTGTGGTACCT

Sequence 511

CCCGGGCAGGTACAGCTCAGTGCATTTNCCCAAAGTGAACATAGCAGTGAACCCAGACT  
ACGGACCATAACATTACCAGAAGGCACGAAGTCCCTGGAGTCCTCTTCTAGTCAGTAGCC  
CTCAGGAGTAACCAGGATCCAACGTCATCTTGTTCGGCTTTGACTTTTACAGGAATGGAG  
TCACCCAGTTGTCTTCTTTGTGCTGCTTCAGCTTGCTGCGGGTGCTGTAGCTGGCCT  
GCCCTGGTGTGGCCGGGGAATCCCTCCGTGAATATACCCCATCGTTTCTCAGTCCCTTG  
AACTGTTTCCAGNTGGGGCGATTGTGGATAGTGCTGCTGTGAACAGGCTTAAGCACGTCC  
CTTTTCTCGAATTTTAT

Sequence 512

CCGGGCAGGTCTTCAGCTCCTGGACTCAAGTGGTCCTCCTGCCTCGGCCTCACAAAATGC  
TGGGATTACAGGCATGAACCACCACACCTGATCCTAAGTTGTATTTTTTTCTGCCATAA  
TTTTTTATATTTAGATTTTACTATTTTGACGGAGGTATTTCTAAAAACCGAAGTCC  
TGATAGTAGGGGCACAATTAATTCATTAGTTAATTAAGACCATTATGGTTTGATCCTTG  
CCTTCTCTCCACCTTATTTCTAACTGTGGTCTCCTTCTGTCTCTGCTCCTCCCA  
TTACACTGGCCTTCTTGGGTCTTTGTACCTCGGCCGCTCTAAGAACTAGTGGGATCC  
CCCCGGGGCTGCAGGGAAATTTCCGATATCAAGCTTATCGATACCCGTCGACCCTCGAGG  
GGGGGGCCCCGGGACCCCAANCTTTT

Sequence 513

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCACTCACTGAATGGCC  
ACCTATGCCCAGCACTCATTGCACTGAAATTATAGGTAGCTTCTGATGGATTGGAGATA  
AGAGGGCCTTTGGAATTATCATCTAAATGTCTTTCAAACCTGTAATATCACTACTACTTG  
GCAACGCAAAGGGCTTGCCATGTGAAAGCTCACCTTCCAATATGAACTGCTGGAGACTG  
GAAACACCGTTACAGAGTGTCTGCAAGTCCATGCAAGAAACATACAGCGCATTATATTG  
CAGCATTGATTTTTCAGGTAAATTTTAACTCTGAGTTGGAGAGAAAGAAAAAAACCA  
AAAGGTTCAGTCTATGAAGTTGTTGCTATCTAAACACTCCCAAACCCATTACTGAAATT  
TTGCGTGGCACATAACCCACGTGGCTTATTTCAAGTGGCTGAATGAACAAAGTTTATGAG  
AGGTACCTGCCCCG

Sequence 514

CGAGGTACTTTCAAGCTCATTGCTAGTAAAGATATCAGGCTAATAACAACCTCAGAACTC  
AAGTTTATTTTCTACACTATCTTAAAAATAAAGTGAAAGCCAACAACCTATTGAGTAGCTA  
TGTAGCAGACAGGACTTTACTGACACTACTTCTAAAGAAATCTACAATCTAGGCTGGGCG  
CGGTGGCTCATGCCTGTAATTCAGCACTTTGGGAGGCCGAGGCGGGTGGATCACCTGAG  
GTCAGGAGTTCGAGACCAGCCTGGCCAACATGATAAAACCGCGTCTCTACTAAAAATACA  
AAAATTAGCTGGGCATGGTGGCGGGTGCCTGTAATCCCAGCTACTCGGGAGGCTGAGGCG

Table 2

GGAGAATCGCTTGAACCCGGGAGGCGAAAGTTGCAGTGAGCCCGAGATCGAGCCACTGCA  
CTCCATCCTGGGTGACANGGCAAGACTCCGTNCCCCCGCAAAAAAAAAA

Sequence 515

AGGTACAGAGATAAACTGAGGCTTAGAGAAGGTCAATACCTGGCCCAACCATATCTGT  
TAAGTGGCAGAGCCAAGATTTGAGCTGTCTGACTTCAGACTACTAACTATTCTACCTCT  
AATATAACATATATGAAAACAACATCAAAATGGTAAAGTCCTAGGCAAACATCAGATCTC  
ACTATCATTAAAACTTTTCTCTGAATCTTTACTTAAAAATTACATTATGTGACCGGGCAC  
GTAATCCCAGCACTTTGGGAGGCCGAGGTGGGTGGATCATGAGGTCAAAGAAATCGAGAC  
CATCCTGGCCAACATTGATGAAACCCCTGTCTCTACTAAAAATACAAAAATTAGCCCGGG  
TGTGGTGGTGGGCACCTGTTAGTCCCAGCTACTCGGGAGGCTGAGGCAGGAANAATTGCT  
TGAACCTAGGAGGCTGAGATTGCAGTGAGCCGAAATCACGCCACCACACTCCAGCCTGGG  
GCAACAAGAGGGAAGACTCCCATCTCAAAAAAAAAA

Sequence 516

CAGGTACAGGCACTTTCTTCAAAGCTCCTTCTTTTGGTGACATCTGGAGCTTCAGAGGCA  
GTGGGAGATGGAATGGGGGTGAGATCCATGGAGATCATTATTGGCAGCATTATTGGCAGC  
AATTCCTGAGAACTGAAACAATTGAGAGAGAGATGGCTTACTTAGCTCACTTAGCTTCT  
AAGCCATTTTTCATTTCTGAAAGTAATGGAAGCCAGCAGCCTATTCTTAGGATTTAATA  
GGAGATTTGAGTAAATTTTCAATCAGGAAGGTTCTCATTTTTTCATTTTTAAAGTNTGAA  
TTCCCTGTTTATATAGAGCAGAGCTATTCTTAACAATATTCATATTTAAAAAGAAATCAA  
GTTGTATCCTTGAGATACANATCTCTATCGCTTGGTAATCATCAGCTCTAGCATCTTATT  
TCACTTAAAGCAGTGCTCACAGAGGCCNGTTAGAAGATGAGGATAACTGAAAAACATTT  
ACGATATNAAGCCCCNACTTTAAGACTGGAAAGTGATGCTATCACTTATGTAAAGAAAT  
AGCAACCGGCTTAAAAATGTTCAAAGTATTTTAAATTAGCCTAACAGTTGGAATCATAT  
GAAATNTGCNACCTTTNTACATTTGCCAGAAATCACTGGTTTTTTAACCCCAATTTGCCA  
TTNGGGTTCNCCCGGGTTCCTNGGNCCNTTTTAAACTAANGGATCCCCCGGCCGNGG  
AATCCAAATTAAGCTTTTNTATCCCGTNGCCCTCAGGGGGGGGCC

Sequence 517

CATTGAGACTGCCATGGTTTACTTGAAAGGCCACGTATTTGTTACTTNTNNTAGAGACCA  
TTCAAGGCTTCTGGCTCTTGACAAAGATAGACCACTGGAACAATGAGAAGGAGAGAATTC  
TACTGGTCACAGACAAGACTCTCTTGATCTGCAAATACGACTTCATCATGCTGAGTTGTG  
CGCAGCTGCAGCGGATTCTCTGAGCGCTGTCTATCGCATCTGCCTGGGCAAGTTCACCT  
TCCCTGGGATGTCCCTGGACAAGAGACAAAGGAGAAGGCCCTTAAGGATCTACTGGGGGAG  
TCCCGGAAGGAGCAGTTCTCTTCTGTCCCGCTGGGAAACCCATGGTCCACTGGAAGTTCC  
TTTATGCTACTTTCACTGGAGCCATTCCCTATGAAAATACCACCCAGNTGAGAAAATTTCC  
TTTGNAATTT

Sequence 518

NNATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACTTAGGGCACAGAGAGGTT  
AGCACACAATGGGTCTAAATATACCACTGTTTGGGGATAAATAGCTTCCAGGGATCTGGA  
TGCAGAAATAAGCTAAGCCAGAAAGATTCAATGCAGTCACCTCAGAAAGTCAGCCACATGC  
ATCTTGGAGAGGCCCTTGTTGTTTTCAGGGCCATTCTAAGAACGCAGCTATACTATAGTCAG  
TCCAAGCGGTATCACATTAAGGAATCTCAATTTGTGAAAAGTAGTATTTCAATAAAAAA  
GGAGAACACTNGTTTTGTTAAAGGAGTGATAACTTACAGTGGATATTTGTCATAGTTTTT  
ATTTAAATGAAAGCTCCCTGACTACATTAAAAATATGATTTATTTAATTTAAATGTATTT  
TGCACATATCCACTTTTAAAGAACAAGTTCATTGCTTAAGCCAATTAACTCAGATTGNA  
GAAATATTTCTTATNTGCCAAGNCNTCTGGATTAAATAGATTCCCNGNCCATTAAAGAC  
TATTTATCTTTTCTTTCAAAAANGAAATCCACCCTTATATTAACCTATTATTCNNCCAC  
CANTTTTCCATGGAAGGAACCAGAA

Sequence 519

ATATAGGGCGAATTGGACTCCACCGCGGTGGCGGCCGAGGTACGCGGGTTTTGTGGAACA

Table 2

GTAAGACTCACTTACAAGNAAGTAACATGCTGTGTTTCTGGATGATATTCTTATCTGAGT  
ACAAAGCACGATGAGATGAGCAAAGTTAACATGGCACAGACTTCCTGGTTTCTCCCATAC  
CTGTGGCTCTTGTTCCTGCAACCTGGGGTCTCCCATTCATGTATATTTCTCTCCTTGAA  
AGCCTCCTGACATCAANTCCCTGTTNTGANGCAATTTCCCAAATTTAAAGAAATTATGAA  
GAAATAAAAAAANGGTNCCNTGNCCCTGGGCCGGGNCNGGTTTCTTAAAAAACTANNTT  
GGGATCCCCCCCCNGGNCCTGGNAAGGGNAAATTTNNAATATTTCAAAGNCTTTNTTCG  
GATTTCCCGGTATCNNAACCCCTCAATAGGGGGGGGG

Sequence 520

AGGTACACACAGTTAACCCTAAACAGGCCTCTCTGAAAAAGCCATTGCCATGGACTGCCA  
GACAGACAATGACAAGACACAAATACCTTCTGGTGTGTGAGCCACGGGACATGTGAGCTT  
CCCCGCTGATGCTCCTCTTATATCAAAGATCACTTTCACAAAGATGAGCGACTCAATATCT  
TTTATCAAACCAATGATCACCTGCAAGCTATGGTATATTTTGCAGCTGTGTAGAGCTAT  
GTGGCATGAGAATGTGGGACTTATAAAATTGCTGATCCAATAAATAAGACATTATGGGCA  
ACAGTGTCTTATCAGCTAGTGGTGACCTGCCCCG

Sequence 521

AGGTACTCAAGCCCTGCCTGTCATGGCCCCCAAAATGCTGGGATTGCAGGCCACCATA  
ACCGGTCATCGGGGCAACTATCCTTCAGGGCTTCCTCCAGTAGGGCTCCCCAGGTTGGCC  
TTGAGGGCCACAATAAAAAATCTGACTTAGCTATACTCCTTCCCTGTCCCCAACACAGT  
TATTCTTGTGGATGAGGCAAATGGCAGCAGGACAGCTGGAGTATACCAGAGTTGACTCAT  
TTATTTTATGCATGCTTAAGTGTGGCATCCCTGGGGACATGAAATCCAGTGAAATCCAG  
TCTTTGTGCTGGAGAAGCTCATAGATCTGTGGAGGAGGCAGATGCCCAACCACTTCACTG  
TACCTGCCCCG

Sequence 522

CCGCGGTGGCGGCCCGAGGTACAAGCAGTAATTGATTCACTGGCCTTGGACTACTTGCAG  
GTCAGCTTGCTCACATAACAGGTTGGTATATGTATACTATCACATAATTATGCATTTT  
AGTAAAAATAATTGTTTAGAACTGGCTTNGGGCAGTTGTGACCTCTAACTGTAATTTCT  
TGCTTCTTCTGTATGTTCCACCTCTTGTGCTGTGCGCCTAAGCCAAAATCANGGTGCTCT  
TGATAAAATTTCTTCTCAATTTAGGCAGCTCATCAAGATTCCACTTCTTTTAACTTAAT  
TNTCCCAANGGTTTTCCCAAACCTCTTTTCAGATAAGGGCCCTGCCCTA

Sequence 523

CGAGGTACAAGCAGTAATTGATTCACTGGCCTTGGACTACTTGCAGGTCAGCTTGTCTCA  
CATAACAGGTTGGTATATGTATAACTATCACATAATTATGCATTTTAGTAAAAATAATTG  
TT

Sequence 524

ACATTATGAATGAACACAGGATTATGAAATTGTAAAGGTTACTTTCTGCTCTCTAATTCC  
TTTACTCGTAATTTTAGTTTTCTTAACGGTATAACTTGATGCAAATATATACACAGTAGA  
TACTAACTTTCACTGAAGTGTTCGGGAGGGAGGGGCACTTTACAAGATGTGTTGCCTT  
TAGTTTTTCCGGTAAGGAGACAGGAAGACACAGACAGAGGCTCTTAGGGCACATGGAAAG  
CGCCTGCCCTGTGCCAAGAACTTAAAGAGAGAGCCGGGGATGGACCCTCCTTGCTGTGG  
CTCCTGAACAGTGCAGCCTCTCTTCTGATGCACTACCCCTGGCGAGGAGAACCGCTTGTG  
TGCGGACTGCTTGGCCCAAGAGCGAGTAGGATTGTTGACTCAACTCTCTTCGTGTCTCCT  
CAGAGGGGAGGAACACCTGGCTTACCTGTTTACATAACTCTTGGTGATTCTTGTCCCTA  
AGCTCTCCAGAATGCTCTTTTGGGCTTTTCTCAAAGGTTTTTAGAAAGAACAAGCTTT  
TTG

Sequence 525

ACCGCGGTGGCGGCCCGAGGTACTAGTAAGTTCTGGGTAGGGGGTGGATGAGTCCTATGAG  
TGGGGGGCCCCAGGCACACAGGAACCATAGTTAACCCTCTTACCTACAGAAGAGCTCC  
TCAGGTCAAAGCTTCACTGTACCTGCCCCG

Sequence 526

Table 2

CGAGGTACAATCCTGCCCTCAAGAAGGTTAAGGTCCAGTTGGAGGAGACTTAGGAGTTCA  
ACTGACCCAGTTCTGCAACCTTAGGTGGCTGTCTCATCCTGACAGGAGACAGGGGACAC  
ACACAAAACAGTGATTTAGGCGTTAACAAAGTGGCTTTACAAAGGTGTAGACAGAATATA  
GGAAATCCAACAAGGCCTGGTGGAGCACCATGAAGCTGGTGACAGCAGGGAACAGTGGCC  
TCCTTAGACTTAAGGGGCAAGAGCAGGAAGAGGTTCTGTGGCCCAAAGGGGTGAGGCAC  
ACAGAGAGGGTCTGGACAGGAGCTCTGGTCACCAGCCTCCAAGGACAAGGAGGGAGGCC  
GCCTGGGGAATATGTATCTTGACCTCATCTTCTCTCTCCAGTCTCCTATTAGAATC  
TCCCACCGGTCAACCCCAACCAGANAGCCAGAGGGCAGTGGGGGTCCATTAATGTGATCC  
ACATTAGGGGGCACAGGGCANGGATG

Sequence 527

CGCCCCGGGCAGGTACAGGGTTTACTCAGTCTGTGTGTATAGGAAGCAGGAAAGGGCA  
AGGGCCCTGGGAACAACCTCAGCCCTGCCACTTACTGGTCATGTAACCCCGAGCAAAATG  
ACCACCTCTGAGCCCCAGTCTCCTCTCTGTAAATGGGTATACCACCACCTACTCATAGG  
CTGCGTGATGAGAAATGGAATAATGTCAGGGAGTGCCTGGCATGACGCTGGCACCCTGGA  
GGCTCCCCAGGAACGGTGGCTACTGCCTTCAGAAAACTGAATCTACTTCAACTTATTTT  
ACGTAGGTCAAAGCATCCAGTCAGTGAGTAAATCAAGCTGCAAGATTCTTTCTACTTAA  
CTTTTAGGAGGAGTCATCCCATGATACCTCGAATAGGTCTCAAAGCACATGCATGATATA  
AATGATTCACTGATATGACTCTGGTCAGATGTATGTTCTTATGAAA

Sequence 528

CGAGGTACACCTGTAATGGCTACCCCGCTGGCTCAGAGCTCTGCCTCACCGCCCTGCCCC  
GGCACCTGCAAGCCAGTGTGCCACTTTTTTGATGTTGTATGTTTTAATATTCCTTGAGA  
CAGACTCCAGAGTTCTGAGTTTTCTTACTTGGGGTGTCAAATTATATTCAGGAACCAAT  
TTGGGTTTTCTGGCTTCTGGTTAAAAAGCTGGACAGATTTTGAGTTGTTTGCTCTAGT  
TCTCTCATAAACTGCACTATTTTAGGGCACTATTTTGTAGAACACAAGATTTTTCAGGA  
AGTATATTGAAAGGCCTGTACCTGCCCGGGCGGCCCGGGCAGGTACTTNNNNNTTNT  
NTNTNNTNNNTTNNNAAAGGNGNGCTGGTTATTTTTAAATCACACATTGAATACAC  
ACAACAATCAGATTTCTTACCAAAACCCCAATTTTTTAATAACTGGCTCTATTANACC  
AAAAACTCCAGTCTGGNGGGAAGTGCCAGACACAACTTNACTTTTGGNTNTTGGGCNAN  
GCAATCCATCAAGGNAATTGTTANGGTCAAGGACTTGCCCTTTTTTCTCT

Sequence 529

CGCCCCGGGCAGGTACATGCGGTTTCTTTGGGCAGGAACACCCTCCCTTCTACCATGGTCT  
GTAGGAATTGAACCTTCCGTGCCGTTTTCAAATGCTGTCTGTGCTCGGAAAATACATAAT  
ATCAAGTCCCTTACTGAACCCCTACAGATTGTGTTTATAAGGTGCTTCACTGCTGTTGG  
TCTACCTGGCCTACTGTTGTACCT

Sequence 530

CGCCCCGGGCAGGTACTGTGGCATGTCACTACAAGGAGCAGAAAGAACAGCTCCTCTAA  
TATAGAATTGCCAGGGTACACTGGCAGGTCATCATAAGCTGCCCTGGCTCTATAGAGCTC  
CAGCATTACAGACTAGGAACCAATGCACGCGTGACGCCATGCTTGTGAGTAATAAACTTCC  
CTGGACTTATACTAAAACCGTATTTTATTGATATGTCCAGTATGTTTTAAGAAAACAGTC  
TCAAACCTCGGGTCTATCTAATATTACCAGCCACTTAACACTATGTGATAACTTTTTATGC  
TTTCAGCCCTGGATATTCTTTGAAGAATATTTCTATAAGGAGTTCTAAAATCCTTCGAT  
CCTCATATTGATACAAAAAATTAACACATGAACAAAAATCTCTGTGCTTCACACAAAGG  
TGAGATCCAACCTGTGGCCCCATACAGTCACCAGTGTCAATAGGCCACTACAGTGT  
ANGGGGATGCAGGGGCAGCTTCAAGCCATGAATGAGACAGCATTACACTCTGTATACACA  
GTGCCCTAGAATATCTGTGTGAACAGGTGGANGAAAAAAGATGACTAATTTGTGTGTG  
TGTGTGTGTGTGTGTGANAAAAAGAGAGAGAGAGAAAGACCGAGAGGAGGTGAAAGG  
TTNCATTTGGTGGTGGGCATTGNCCTTTTNACTTNTTTTTTCATAGGCNTNAANAAATTC

Sequence 531

CCGCGGTGGCGGCCCGCCCGGGCAGGTACATGAGTCCCTTCAGGAAGTCATCAGCTTTGT

Table 2

TCAGTTTCCTCAGATTAGATAGTAAACTGAGATTATGAACTATAAAGATGTGTGTAATT  
TATCTGTCACTGAACTTGACTTTAATAAAAGCTTTTTGAAAAAGAACTCTGGGTGGGGTG  
CATTGGCTCACACACATAGTCCCACTACTGTGGAGGTGAGGGCAGGAGGATCACTGGAG  
CCCAAGAGTCCAAGATCAGCCTGGGCAGGATAGCGAGACCCTGTCTATAGAAAATATTAA  
AAATCAGCTAGGCATGGTGGCTTGGCCTTGCCATTCCCTGCCACTTGGGAGGCTGAGGTGG  
GAGGTTGCTTGAGCCCAGGAGCTCAAGGCTGCAATGGGCTGTGATCGAACCCTGAATT  
CCAACCTGGGTGACAGAGTGAGGCCCTGTCTCAAAAAGAGAACTCTCGATGTCACTGGCT  
TTCCATGTAAGCAGAGCACATCATGTGAGCCCCATTCTG

Sequence 532

CGAGGTACAGAACTTAAACACCACTATTTGTTGAGATGAAAAAAGCATATATAGGAAGC  
CTTCAAAATGAAATGGTCAAGGGTGAGTTTACACAGATAGATAGTTAGGTCTCTTCTCT  
TTTGCTTTGTGAAAGCATCTAGTGTTTAGGTGTGAGAGAGGGAGATATCCTTACAAAGCA  
GAGATTATCATTACAGGTTTACATTTCTTACAAAGAGTTTCAAAATAAACAGGTAAATGC  
CAAAAACATATATTTTGGAGACGGATTAAATCACTAGTTGGTCTATTCAACTTAACTTGT  
TTCCTAATGAGATTAAATTCATGCACAAATAACCAACCAAAAATTAACCAAAAAGAATA  
CTCACCAGAAAGGATGTNCTTTACAAAGAGCAGATCCCCCAAAAATGTAAGAGTTCACTG  
AAAAGGTGGGAGCTCAAACCAAGAGAGGACTTATCTCGCAAGCATAAAAGCAACTTGTCC  
TCGGC

Sequence 533

CGAGGTACGCGGGATGGCCCAATATTAAATTGGGCCAATGAATGTCTTCTTTTTCACTGC  
TAAGGGAAAAATAATTTTGGGAGGAAGAGGTAAATACTTAAATACTTAAACATTTTTCA  
TTAAATGAACTTTTATTGCATTTTTTCTTTTTTAGATTCTTATAATTATTTTTAGAG  
ACAAGCTCTCACCATGTTGCCCAGGCTGGTCTCGAACTCCTAAGTTCAAGTGATCCACCC  
ACCTTGGCCTCCCAAAGTGCTGGGATTACAGTCTTAAGCTACTGCTCCTGGCCGAGACAT  
ACATTTTTATAATGTTAAGAGTTATTTAAAAAAAATTTAAGGCACGTAATGAAGGGTG  
GTTGGTATTCAATACATAAGTGTATTCTCTACAAGCGTAGAGAAATGAACACCATCAT  
GAAATGAAATAAAAGTA

Sequence 534

CGACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACAAC  
TTTTGATACAGTCAATGTTTCTCTCCAGTTTCCGCAAATTGTTAACTTTTATCATGAAAC  
ATGAGATTTGAGGGTGTTTATCCTTTCTTGATAGAGCACATGAACAGGTGTCAATGCTG  
ATCATAGCTAGAAGTAGAGTGGGTCCCATGTGTAACCTCCGGATGGCTAAAGAAAGTGTTT  
TACTTACAAGAGGATGCTTCATTTGACTAGGATTGGCTCTCAACAAGGCCCGTGACCTT  
AGAAGAAAAAAGTCACTTCTGTACATAAGAGCTCAACTGATTCACTCAACTTCAAAAGG  
GCACTGAGAATGCCATGCTTTGAAAAACATACAAAACAGTAAGAGGAGCAGAGAAAAGCT  
TGATGTGTTTTCTCAAATGACACAAAACAATTTGTCTCTACAGTTTAAGGAAAATCAA  
TTAAACATAATCTGTAGATCAGGAGTGGTAGCTACTTAAATACCAAAAAAGGAAAATAA  
CCCCAATNGAAAAGAC

Sequence 535

CCGCGGTGGCGGCCCGAGGTACGTGTTTCAAGTCACTGGGCTGACCTGTAACACAGCACA  
ACCTTCATAGCCACTGTATGAAGAAGTAGAAGACCCANACTCTTGCTTTATGTTGGTATC  
AAAAGTCATTTCAAGATCAGGCTGATCACTCCCAAGTAACCCACTGACTTCTTTACTCCA  
GCTCTCTGTCTGCTGTTGACTCANAATGTTACACTTCATTTTCTCCATTGCTGATATAAT  
CATATCTGCAACATAAAAGTGGGCATTTTCTTTTCTACATCAACAGGCAGCACAAATAC  
CTCTGGTGAGAAGGAATTCNAAGAAATGGTTCTTCTACTGACTTGAACAGCACCTTCATC  
AGCAGCAGATGTCAGATGGGAAGGCTCAAAAAAGCACTGTCACTGCTCAGGATATGGGGA  
GGTGGCCAAAATNCCANGGCTTGTTGGGCAGAGACCCCGATGGGAGTATTCTGGGCGGAC  
CATGTGTCCTGCCCCG

Sequence 536

Table 2

CCGCGGTGGCGGCCCGCCCGGGCAGGTACTGCCTGAAAGGGCTGTAGGGACTTACCTGTG  
TCACCCAGTGTACGACATAGGGGCTGAGTGATGCTGGAAACATAGAATAGAGAGCTTCC  
TCTGGACTGCTCTCTGGCTGCCTGGGACCCAGGCAGACCTCCTGTTTGATCTCTGCTGGG  
GTTGCTGGGAGCAGGAAACACCTACCTCGGGGGCTTTCTCTTGCTAAGGGGAAGGAAGTA  
GAGGTTCTGAAACCTACGAAAGTCTCCTGCCCCTGGGTAGAGGATTACAAGACACCAGGG  
CTATAGAAGCCACTGGTGCTGTTACCTGGTAGGGGACAGGCCTCCCTGCAGTTGCTGGTG  
ATGTGGGCGGACCAGGCCTATAGCTTCTGCTGAGTATGGAGTGGACAACAGGAAGGCCCT  
TATGGGCTGCATTGACACTGTACCT

Sequence 537

AGGTACTTTTTTTTTTTTTTTTGTATACAGCGAATCACTTGAACCCAGGAGGTGGAGGT  
TGCAGTGAGCCCAAGATCGCACCATTGCACTCCAGCCTGGACCACAGAGCAAGACTCCATT  
TCAAAAAAAAAAAAAATAGGAAATTAGATCATGGCCTTCTAGAAATAGGCAATATGCCAT  
TTCTCTGTTTATAGCTCTCTACTGGCTTCTTCTTACACTTAGAACAAAATCATATTTA  
TGACCACAAGGCCATACAGGATCTGTCTCAGTGGTTCTCAGTGGGATGTACCTGCCCCG

Sequence 538

CCGCGGTGGCGGCCCGAGGTACGCGGGGATGGGTGTGAGTGTGCTCTGCCATGAGAGATT  
GTCCTGTTACAGGGCTGGTTCCACCTCACTCCGTGAGCTGCTGGGATGGGCTCTGGCCAC  
CCATGGNCATGAACCTGGAAATAAGCAGGTATGGACAAGGTTCTGACCCTTATTATTGGAA  
CTCAAATCCAGATGGAGTTTGTGGGACTTCACATCATTGGAAGGTGAATAGAAAAGTAT  
GTCTTAAGAAATTTACCATGTTTGGAAGAATTGCAGCAAGAAAAAAGAACTCCTTTGT  
TTCCACCCCATTTCTTTAAGGAAAACCTGGAATATCTGAGGGTGCAAGCTGAGAAAAGT  
CTGCTTATCTGTTCCCTACTCTGGCAATCAAAAAGGATCCAAGTCTACTGTTCTCTTCTC  
CTGGCACTCTTAACCTGCCACATTGCAAACCTTTATGGCAAAAGTAATGGTCAAGCTAT  
CCTAACAAAGGACCAGCCCTTATTAATAATTCACTGTGGTGGGAAATGGTGAGGAAGCC  
ATCTTCTTTTTGGCTTCTTTTCTCTGAAAAATAAAAAATTTTGGCCTAAATTT

Sequence 539

CCGCGGTGGCGGCCCGGGGGCCATTGAGACTGCCATGGAAGACTTGAAAGGTCACGTAGCT  
GAGACTTCTGGAGAGACCATTCAAGGCTTCTGGCTCTTGACAAAGATAGACCACTGGAAC  
AATGAGAAGGAGAGAATGCTACTGGTCACAGACAAGACTCTCTTGATCTGCAAATACGAC  
TTCATCATGCTGAGTTGTGTGCAGCTGCAGCGGATTCTCTGAGCGCTGTCTATCGCATC  
TGCCTGGGCAAGTTCACCTTCCCTGGGATGTCCTTGACAAAGAGACAAGGAGAAGGCCTT  
AGGATCTACTGGGGGAGTCCGGAGGAGCAGTCTCTTCTGTCCCGCTGGAACCCATGGTCC  
ACTGAAGTTCCCTATGCTACTTTCACTGAGCATCCTATGAAATACACCAGTGAGAAATTC  
CTTGAAATTTGCAAGTTGGCTGGGTTTATGTCTAAACTTGTTCCAGCTATCCAGAATGCC  
CAACAAGA

Sequence 540

GGAGCTCCCCGCGGTGGCGGCNCGCCCGGGCAGGTACGCGGGGGGATAGGCAATTAATTT  
CATGGAGAGTAGGAGGTGTGGGTTCACTGCTGCTTTTTTTTTTTTTCAGTGAGGCATTAT  
CTGAATGATGCTCATTCTCTCTTGAGTCTGGACTTCGTGCAACAAGCAGCAACTGGATAT  
TATTTTAAATAAGCATAAGCCACCCAAAGATACTGATCTGGGTCCCTTTTGAAGAA  
GAGTTGATTGAGAAAGTGCCTCTTGGTTAAGGATTAACCACAGGGAAAAATCCAGCAGAAA  
CAGAAGAACTGTGGGTTTCTTACCCAGCCCTCAAGGAAGCTATGCCGTGAAAGGGGTAC  
CTCGGCCGCTCTAGAATA

Sequence 541

CCGCGGTGGCGGCCCGCCCGGGCAGGTACCTGGCCTATTCCTGGCTTTGAAAAATGGTTT  
TCGGACACTAAATCTTTTATTATAATTCAAACACATTATAGTTGCTTCTGGGAGACTTTT  
GCCTTTTGGCCTGCTTACAACTAGCATCATATTCTAAAATCTCAGGAACTAAAATTACT  
CATTGTAAATTTCTCTAAAATTCAAAGCCTATTGGAATCCCTGCTCTGTTATGTAAATA  
TAAATATTCGAGACATTTACACCACATTTTCATTATTCAGCATTCCCATCAAGTGTCTGG

Table 2

AAGGCCAGTTCGCTATTTTATAATGAACGTCCTGGGTTTGTCTGAAAGGGCAGCCTTGT  
ACCT

Sequence 542

NGATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACGCGGGGAATGCAAGAATCA  
AGTGTGTAATCTCTGTGGATTTAACCCTACACCACATTNGANTGAGATTCAAGAATGGCT  
TTGTTTAAATTGCCAAACCCAGAGAGCAATATCAGGACAGCTTGGAGACATACGCAAAAT  
GCCACCTGCACCATCAGGACCCAAAGCATCTCCTATGCCTGTTCTACAGAATCATCATC  
TCAGAAAACAGCAGTGCCTCCCCAAGTAAATTAGTGAAAAAGCAAGAACAAGAAGTAA  
AACGGAAGCTGAAAAAGTCATTCTGGAAAAAGTAAAGGAAACACTATCAATGGAAAAAT  
TCCTCCTATGGTAACCACAGATCAAAAACAAGAAGAGAGTAACTAGAGAAAGACAAAGC  
TTCAGCTCTTCAAGAAAAAAGCCACTCCCTGAAGAAAAAACTAATCCCTGA

Sequence 543

CCGCGGTGGCGGCCGAGGTACCAGAGTCCATGTTCTTAAACCATTAACTACGATGCCTC  
TCAAGTAAATAGTCAATAAGTGGTAGGTGTGAGGCTGTAGGAAAAAGAGGAGACGAAGGG  
ACAGGAAAGCAGTCTCTATTGGAAAACTAGGTTTCGACTGGCACTGTTGGACTGGGCTGC  
AGTTTAGTCTCTCCCACTGCTGAGTTCCTCACTTCATCTCCTGGTGCTTCTGGTTTCCC  
ATTTATAAAATGCAAGGGAAGGATTCTATTTATGTCACAAGGTGCATCTAAGGAGTAAAA  
AGTCACGTCATGTTGACCAATGTTAGTCAGATCAAGATTTATTTTAGATAAATTATCTG  
TTAAGTTTTAATTACCATGACTCAGATTTTATGTTCACTTTTTGGGCAAAGCTAAATAAA  
ATATATAAATATATAAAATCTGGGCTCCAAC

Sequence 544

CCGCGGTGGCGGCCGAGGTACCTTTCTTTCCAGGCCATGGCAAAAAAATCCAATTATGT  
CCGTCTTGAGTCTGTGGTCTTGCTTCTTATGTAGTATTTCTTTGTGAGCTGAAGATTAA  
TGCAATGGATTACCTCCTTCAGCACATTTCAATTTGAAGAAAAGATTCCAGGCA  
CTGAATGTAAATTTGAACATGACATTTTACATTCTTCTCTGAGAGCTGGGTTGGTCT  
TAATTGCTGTGAGGCTCTANACACCGACCATACAGGGCGTGGGGCTGCTCCTGGACATGA  
ACATCCTCCGAAGTTCTCCCCAGTCCACTTTACCCGCTCTGGGCTCACCTCTGAATGTGT  
CTCCCCCNCGTACCTGCCCCG

Sequence 545

CCGCGGTGGCGGCCGAGGTACTCAGAGGTTTCTGGCTCCAGCCATTGCTCTCGACCTCA  
CAGTACCCATTGGGCCAAGCCACCTCCAGCTCTCACCTGACTTGCTGCAGTGGTCTCCC  
AAGAGGTCTCTCCACTCAGTCCCTGCCACCTTCAGCCTGTTCTCAGTGGAGGGGGCCAGA  
GTGACCCTGTAAAAACATGAGACCTTTACGTCCAACCTCAGCTGAGACTTCCCCATGGT  
TCCTATCACACTCAGGGTCAAAGTGAGAGTCCCTAAGATGAAACACAAGTAGGGAGAATG  
CCCTTCTCAGCTGGACTGGGACAGCTCCAGGGTATCCCTATTGCTTGTACCTGCCCCG

Sequence 546

CCGGGCAGGTACTGTTCTAGCTAGGGCTTTTCAAGTACGATAAGTTCCATTGGAAGGATAA  
TTAGAGGGAAAAAATGGTTAGAATTTATAGAAAAGTCTTTATTTGAACAGCTGTCATAGA  
AACAAAGGAGTAGACAGTCAAGTTNNTACTAAAGGNAGAACTTAAATCAATAANGAAATTA  
TAAGAAGGAAGATTTTACCTAAATTTTAAACAATTTTTCTTTTGGCCAGGCACCATG  
GCTCATGCCTATAATCCAGCAATTTAGGGGGCTGAAACAGGTGGATTACTTNAGTCCAG  
GAGTTTGAGACCAGC

Sequence 547

AGGTACTGTGTCATGCTTTTTACATTGAGCTATGTGCCATTGGGGGTGGGGGGTAAAAGC  
TATTCCTATTTTAACTCTTCAACATTTTTTAAAGTCTTCAACATGATCTTTATCATGT  
TGTGATGTGACCGCCTAGATTTCCATTTGAGGCTCTCATATAATNTACTTGACCATGTC  
CCTACTGGTTGACAGGAGACCATCATGGTTCCTATGATTTCTCAAAGTGTGACCCCCAAC  
AAACACCTGTCTAGAAACACCTGTCCCANAAACACCCAGTACCTGCCCCG

Sequence 548

Table 2

NATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACGCGGGGAGATGTAGTGAATC  
TCTGCCTGTGTGGACAAAGAGACACATTTCAGAGGTGAGCCCAGAGCGGGTAAAGTGGACT  
GGGGAGAACTTCGGAGGATGTTTCATGTCCAGGAGCAGCCCCACGCCCTGTATGGTCGGTG  
TCTAGAGCCTCACAGCAACTAAGACCAACCCAGCTCTCAGAAGAAGGAATGTCAAAATGT  
CATGTTCAATTTTACATTCAGTGCCTGGAATCTTTTCTTCACAATTGAAATGAAATGTGC  
TGAAGGAGGTGAATCCATGCATTAATCTTCAGCTNACAAAGGAAATACTACATAAGAAGC  
AAGACCACAGACTCAAGACGGACATAATTGGATTTTTTTTGCCATGGCCTGGAAAGAAAAG  
GTACCT

Sequence 549

NCGCGGTGGCGGCCGAGGTACTGCTGAGAGCACAAAATCATCAATCAAACCGCGGAGAAT  
GCAGCAGGCTGCTCCTACAGATCCTGACTTACCACCAGGTTATGTGCAGAGTCTGATTAG  
ACGAGTTGTAAATAATGTAAACACTTNGNGGATGAAAATAATGCTCATACCTATAAAATA  
CTGTTGAAAAGNATGGATACTCAGTNCCTTTTCCGGTCANATAATTCANCTTTTNTGCCA  
GGAATGGTTACTACCACGNTAAGGTTGGAAATTTAATGGGGNATTCCGNGGNCATTGTNC  
ANTGGGNNTTNTNTNTCNTGGCCAAAACCTGNAATTATTNGGGNNTGGCCTTGGAGGAAA  
AAAGGGGTNNATTCCAAAATNTTTGTTTCNTTGGAACTTGNNNANNCNTTGGGCCCNCC  
GNGNNNGNGGNCNCCNGNTCCCCGGGNGNCCAAAGGGGTAAACCCACCAA

Sequence 550

GCGGCCGCCCGGGCAGGTACCGAGCTTCAGTAGCAGTCTAACAGGTTCTNNGCTGNCTCTT  
CCAAAAGCGGGGACTTATCCTCATGGCTTCAAGGTCACCTGCAGTCTTAGCTGCCCG  
ATAGACTTNTCTCTCCAAAAGTCCCTATTTTTCAGCTGTTTTACAGGGGCACCCAGAGGC  
AAATATTATACAGAAACTGCCACATGTAGACTGTGATAACCCACACCTGCTGGACGGGAA  
GTTAACCTTTGTATAAAGAAGAGGGTTGGCTGAGTCAATTTATGACAAGAACAATTTGGA  
AAAGGTAATGCTGGAAGTCAAGTCCCTTCTNAAGCATCCTCCAGCATTTCAGAAGCA  
CCTACCAATTAATATGTNAATTACAAACCATTCTCACCTGTTGAGGAAAGGGCCC

Sequence 551

NNATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGTGTGGCCTAAAACAGAAGAATGTT  
TAAGTGCATGAAGGCAGGGTGCTTTGTATTGCTGGGCTTGGTGTATATTTCTTTGCTATC  
TANTTTAATATATTGAGCTTTACATCTGTGCCAGCCTTGATGTCCATATACCTTTGGCA  
GGCATTCTAGTCAGGTGGCATGGGGCAAGGGGTGTGCTACGTTTTAAGTCCCTCATTTT  
TCCAGCCTGTCCAGGTAGTGTCTACGTCTCCAACCTCACTCANGAAGGCAGGAGACTTCCA  
GATTCACCTCCACTGGTATCAAGAGTTAGGTTCTGGTGAGAGAGCTGGCAGAAGCTTCAA  
GGACCTTGCGTCTTAGCCCCCTCTTTTTCTGTCTTAACAGCAAGTTGTTGCCTCTAA  
TTTTAGAAAATCGCNGCACATTTNCAGGAAGACCTGAAATGCCNGTGGGACTGCTTC

Sequence 552

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGGGAGAATCACCTGAGCTTGGGAACGTTGA  
GGTGCAGTGAGCTGAGATCGCACTGCTGCATTCCAGCCAGGGTGATGGGAGTGAGACCGT  
GTCTTAAACAAATAATAAATTTGGGGGTGATGTANACAGAAATAAGGACAGAGGTATG  
AAAAGGGAATAATTTAGCATTTTACTANGCCAGAGATTTGGGCAGTCCCAAAAAGCA  
GCTTTTCTAATCTCCCTCTCCTTTCCAAAAAATTTAATCAAGATCCTTTAGTATCCTA  
TCATCTTTGGGTATTTACATACTACTTTTGGAGGGGGGATTGTGGAAAGCTATCCGAG  
ATCTTTGAAAGCATTGATGATTAGCAAGATGATTATTCCTGTAAGAAGCCCN

Sequence 553

AGGTACTGACTTGCCCAGAGCCTCAGGTCCAGATGAAGGGGAAGTGATTTGTCTCTGTTT  
ATTGCATCTCTGAGACCTAATGCTACAGTCCTGCCTTGACCTGTGAAGAGGAAGTCAAAG  
GTGTAAACAGTCTCCCACTGGTTCCCTTGCCATCCCATCCCTTGTTGGCCAGCCCTGACT  
GTGGCCAGTTCTGCATCCCTACCCGCGTACCTGCCCG  
NATGGTCATAGCTTGTTCCTGTGTGAAAATTGNTATTCCTGNTCAACAATTNCCACACA  
AACATACGAGCCCGGGAGCNATAAAGTGAAAAGCCTGGGGTGCCCTAANGAGTGAAGCT



Table 2

AACTTCACATTAAATTCAGTTGCGCTCACTNGCCGCTTTTCC

Sequence 554

GGAGCTCCACCCGCGGTGGCGGCCGCCGGGCAGGTACGCGGGGCTCTCTTCTACTGTCC  
CAGCTGTCTCTGTTTTTAGGCAACTTTCTGTGGCTTTTTCAAGAGTGGAGATTGGCTG  
GAGCAGGATTAGGAAGCCTCCTGCTACACGCTTTCCCTGAGAAAAACCTNCTCTCTGGAA  
GGGGCCTGAGGTGAAAATGATTGAGAAGGCAGCTGAGGAGTTCTGGAAAGAGCCCCAAAG  
ACCAGGCTCTGAGGCCTNCCTGGGCCACTTACTAACTAAATGGGAGAAGATTACTTGAGA  
AAAAGCCTTNACAGTGCCCACCATTGATACCCCAT

Sequence 555

CCGCGGTGGCGGCCCGAGGTACTGTTTCACTTTCATCACCAGTAGGTAATTATTACTATT  
ATATAAGTTTCTAAAAGGTTTGTGTTTGCATATTCAAATAAATATGAATTTCCATCTTCT  
TTACTCAAATGGTGGCATATTATACACACAGTTTTTTTGGAGACAGAGTTTGTCTTG  
TTGCCAGGCTGGAGTGCAGTGGCGCAATCTCGGCTCACCACAACCTCCATCTCCCGAGT  
TCAAGCGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGCATGGTGCCACCA  
CGCCTGGCTAATTTTGTATTTTAGTAGGGACCAAGTTTCCCTA

Sequence 556

CCGCGGTGGCGGCCGCCGGGCAGGTACTTTGAATGCTTCCTCCTGGAAGTGAGTACTCA  
CATTTTATGAGTCAAAGCAAGTCTCTTAGCCCCACTTCACTTTAATAGGGCAGGTATCAC  
TAGCCCTAATGACCACTTCAAGGGGTAGAATATGAGGCTGTTAATATTAAGGAAACAAC  
CTGAAGTCTAACATTATTGAAACCAGCATTCTGGTAAACACAGACAACTATCAAAGACA  
ATAATAATAGGATCATAAAAGTTTCAGAAAGCACAGACACGGCTGAAACACTAACACCCA  
ACTGGCAATGGAATCATTCTTGCCTGCC

Sequence 557

NCGAGGTACATCAGGCAGTCACTGCTCCCGTCATACCGGGCACATTTACCCACAGGCCT  
GTGTAACAGTCAGGTTCTTCTCGTTTCTGTTGAATGTGATCAATCGTAATTTTCTCCAG  
TTGGGAAGCAGAGTCCCTGCAAAGAGGCCTGCTACTGAGGCGATTCCACACAGGAAGGAA  
AGGACTGTGGCTGCGTGGACATCCCGACAGCCCATGGCAGGCAAGCTTGTGGAGTACCTG  
CCCG

Sequence 558

ANGTNCCANGTNCNAGCCTGGGCCTTAAGAGGTCTTGCTTGCTTCTGTTCCCTTTGGAAC  
TCTGTTACTGCTGTGAGCACGTGAACAGGCTCACTTGGTGAAGGGGAGCAGCTAAATGG  
AGCAGAGCCAAGTCATTTTACTTGAGTCTGGCCCTCTCAGACCAGCCGTCAGCCAGCTGA  
CCAAAAATGTGTTAAGACAGAACAGCCAACATCAGCAGAGCCACCTACCTAACTTGATACC  
TGCCCG

Sequence 559

AGGTACTAGAGAAGACACCAGGATGGCCAGGAGACAATGGCAGCATTAGAAGGCCCTAGT  
TGAACAGAATATATAATTTCAATTAACAGCTGCCGAAGCTCATTACGCTGGCATGAATGA  
TTCTTTACAACCACAAAAAGAAAGAAAAACAGACAGCAGCCTATTTACAGATGCAGTGAG  
AGCTGTCCCTTGCTTTCCAGCTTTCAAGGGAAGCAAAACATGTCTGCATAATAACTTTAA  
CCTATAATTCAACGCTATTTAAAAGTGTAGCTTGCCATAAGCTTACAGGGATATTTTTAT  
ACTACATTTTCAAACCTCCACAATCTCTCAGCAGTTTCTGACTGGATTGCTTCCAGGCT  
TGCTGCTACCTGCTGCGGGGCCAATCAAGGCAGCAATCTANCCAGCACAGGCATTCTTTT  
NTGGCNCCCACCCTTCTTGCACTCAAACATTTTCTATCCAAACATACTTTGCATATCTT  
CATGTTTTCAACCTGAGGAAAGTATAGCTCAAATGCCTT

Sequence 560

CCGGGCAGGTACCAGCCAGTTTTGAGATATACCTGGTTTGCTTTAATGTTATTAAATTGT  
NNNNGGTGAGTTTTGCAAATGGACAATTGAACTTTGTCTGCCAAATCTTTTTTATTGC  
ATTTAACTTCANGGNTTTTTATTTCCGGCTTATTATGAATGGATTAGTCATTTTGTGAA  
TATACTCTTCATTGAGTTTAGGGAGAAATANGACGTTAGATCCGAAGATGCTNNTTGT

Table 2

TAATNACCAGAATGGACAAAATTATACTTCATTTACTATCANGGAGGCATGGGGAGAATA  
GAGGCCTAGGGGTAGCCGCTTGTGGCTCTTACTGGTTTTGTGNATNTGGTTTTTTTT  
Sequence 561  
CCGGGCAGGTACACTCAGTGCCTTACACGTGTTGTTTCATTTTCATCTTCACAATAGCCTT  
AGGAGATAGGTGCCATCATTTCTACTTTATATATGAGGAACTGATGTGAGGGGACAATG  
TGTGCCCAGGCCACCCGATCAGTGATTGGTAGGGCTAGAACTAAACCCAAGGCCTGTGAC  
TCCAAATCCCACCTTTTCAAAACCAGAGTGCCTCGACAGCCAAGTCTTCAATACTAATT  
TACTCAGGGTGTGTTGTAATAAAATATGAGGGTAAGAGAGGTCAATGTTTTTTTTTGAAC  
ATTGAGATTCTTCAGAACCAACAACCTGTCTAGAGCTATGCT  
Sequence 562  
CCGGGCAGGTACCATTTCTCCAGGCACATACAACATGAAATATCATACAGCTGTGAAAGAT  
CTGGTGAAAAGCTGGAATATTGAGGAAGAAACATTTTTGAAAATTATTTCTCTCTAA  
GTCAGTAAATGTTTGATATAATTCTGAGTGCATGGCTGTAGTCTGAAAGTTTATGTGCCC  
CTAAAATTAATATGTCAAAATCCTAACCCCATGGTGATGATATCAGGAGGTAGGGCCTT  
TGGGAAAGTAATTAGGTCATTAATAATAAGGAAATCGTATCCTTTTTTTTTTGA  
CGTAGTCTCGCTCTGTTGTCCAGGCTGGAGTGCAGTGGCACAATCTTGGCTCACTGCAAC  
CTCCGCCTCCTAGGTTCAAGCGATTCTGCTGTCTCAGGCTCCTGAGTAGTTGGGATTACA  
GGAGCCTGCCACCACGCCAGCTAAGTTTTGATTTTTAGTAGAGACTGGGTTTCACCAT  
GTTGGCCAGCCT  
Sequence 563  
CCGGGCAGGTACAGCTGGATGTTGACATAGTCAGGTCTGTTCTCTTGCCAAAACCTTGTTA  
TGCAACATACAGAGTAAATCTGCAACCAACGGAAGGACTGGATATCTCTGCATACCCAA  
ATAAGTATAGCTTCTAAGCTTGATGGTTCCAGTCATCCAACAGGGTGTGAGTATT  
GATGCAAATGGAGTTACTCCAATGCCTCCAGCCACGCAGAGGCTGACCTCATAGTTCAGT  
GATTCCTCAAATGGACTTCCAAAAGGACCATCAATATACAGCTTGGGATAATTTCTAGAT  
TGAATGAAGGGCAGAATTTGAGAGTCTTGAAGTGAAGGCAGTAGTAAATCTCGAAAT  
CGTTCTGTCCAGTCTCCTACTATTTAAGATGAACCCCAAATGTTGCTTTGGTTTCAGTT  
GGACACATTGTGAGGGTAAATGGATGATTTTCTAATGCAGATACACTGGGACAATGTAGA  
GTAATATACTGACCAGGTCTTGCTTTAAAATTTCTTTTGACCATTCCGATTTCATG  
Sequence 564  
CCGGGCAGGTACGCGGGTATGACGAGCCTGTGGCTTTCAAGCTGTGGACATCTGGCCTAG  
CTAGATTTCTACTTTTGTGTTGTTTGGGTTGTGTTTTCCCCCATTTCTCAGAAAGT  
GAAAGAGAAATAAGAATTGGCAGAATGTTGCGAAAGCACGGCACATCTTGGCCAAGTGA  
GGGGTGAGAAGGCCCTGATGTGTCTCAAGATTCATCTGGGGAACCCCTAATGCTACTT  
CTTAGAAATGCTTCTGCATTTAGAGCAGCCAGATGAGGTTGTGTTAACTTTTGGGTTTC  
TGAAGGCCTTTGGCTTCTTCTCTTGGTCTAAACAGAAGTTCAAAATNNNACATNAAAAA  
AANATNTAAGTACCTNGGCCGCTCTANAACAGTGGATTCCCCCGGGCTGCA  
Sequence 565  
TCGGCTCCCAGCTACTCACAGAGAACGTTTCTGTTTCTGACAGCAGAGTAAGAGAAGAGG  
TGAGAAGAGAGACAGCCATTCTCTTTTGGCCTAATTCCTAAGGAATCATGCCTCTGCCT  
TCGGGCCATTCTCAAGTCTTGTTCAAGGATAAAATGATTTATTGATGGCCGTAATTA  
AGCAATGCCAACGGAAGCAGCGTCAGCATTTTTTCATTTATACCT  
Sequence 566  
AGGTACGCGGGGTGTTTTGAAAGGGTCTGATAGGAATTGCAATGGTATAGGTAAAGTAA  
GATAAAGTCACATTTACTGAGTGGGCTCTTTGGGGACAGCATACATCAGAGCATATAGTC  
TTCTTGGTCTAGCAAAGAATAATGGTTATGAAAATTAACCATTTAGGGCTAGAGAAGGTC  
TTGGAATTTGTATAGCCAAGCCTCTTCATTTTGTGAGTGAGGGGATTGATTCTCCAGCTG  
ATTTAGGTCTAAATCTGTGACAATGATTTATATACCTATTTCATGATCACTTAAGTGGTAT  
TATTAATGGCAATTAATATGAGTCAAGCAGTGGTTTAAATGCTTTGCATATATTAACCCA

Table 2

TTACTCCACAACAGCTCCATAGGTAGGTGATTATTATCCCGCTTGTAAGATGAAGAAA  
CTAAGGTAAGAGAGTGTAGTTCAT

Sequence 567

ANGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACACAGTTAACCACAAAACAG  
GCCTCTCTGAAAAAGCCATTGCCATGGACTGCCAGACAGACAATGACAAGACACAAATAC  
CTTCTGGTGTGTGAGCCACGGGACATGTGAGCTTCCCCGCTGATGCTCCTCTTATATCAA  
AGATCACTTTCACAAGATGAGCGACTCAATATCTTTTATCAAACCAATGATCACCTGCAA  
GCTATGGTATATTTTGCAGCTGTGTAGAGCTATGTGGCATGAGAATGTGGGACTTATAA  
ATTGCTGATCCAATAAATAGACATTATGGGCAACAGTGTCTTATCAAGCTAGTGTGTACC  
TGCCCG

Sequence 568

TCGATAGAGCGCCTGCGNGCGCNCANNACCTGNCGCACGAACGCCANAACACCNTNGATC  
AACTGTGGGAGAGCTTGTCTCAGATAAGGTCACATCTGAGATAACNGGGGGTCANGATTCT  
ACATGTGAGCTGGGAAGACACTGTTCAACCTTAACATCTCTGTTCTNCAGGGTCTTNA  
AATATANTTTNGGGTGCAAGGAAAGGCAGCTAAGTACCAAGTTAATTATNAGAAGGACCA  
GTTTTGAGGATTTGAGGAAAAAANAAAAAAAAAAAAAAAAANGTGCGGCCGCTANACTAG  
T

Sequence 569

AGGTACCATTTCCTTAAGCAAGCAGGATTGCAGGTGGGCTACTGCGCTAAGTTTTTAG  
CAAAGAAAAGTAATCTGATTTGAATCAGGACTCATGGCAACTCTAAATCACGTATAGTT  
TTTCTCATCAGTTAAATAATAAATGACAAAAGTTCGGTAAATTTCTGATTTTAAAG  
ATAAAATATTATTATAATTGATATTGAAGAAAGCAAACAACGTTTCATTGCAGGACTCCTA  
GTTGCATATTTCTTGTAGAAGATATTTCTTGAACCGTCTTCAATTATTGGGAAAAAAT  
CCATGTTTCAAGAGTTCCACAGGCTGTACCTGCCCG

Sequence 570

AGGTACTGGGGAGAAGTCAAGAGAAGAAAGGGGATGCACTGCTGGGCCTCATGAGTTGGCT  
TATACTTACCTTGAGCTAAGCATACTAATACCCAGTCCAGGCAGCATTGAACAGCTCCG  
CGCAGATCTCACCTTCCAAAAAACAGGAAGAAAAAGCCCTCTCACTGCAAGCAAGATCCA  
AAGAGAGAAGAGCAAGGGAGGGGCTGATGTGAGCATGCCAGATCCATCCCCACCCATA  
TTCGCCACCAAGGGCGGAGACAGGCAAAGAGGGCCCTGTCTGGAAATCCCTCCATGAG  
GAAGCAGTGAAGGATGCAGGGCCCACTCTGTCAAGTGTCTAGTGTCCACCGATCCTACAT  
AGTAATTTTGAAGACGATAGCATGATGTTCTGAAAGGAAAAAAGTTTCTCTATG  
AGGTCAATTAACATATATCTTGAGTGACTTTATTGGNCNTCTGGGTCAATTTGACATTTT

Sequence 571

AGGTACCATTCTCCTTCAGGCTGGCTCTATGTTCTTCATGGGCAGCGTCTCCACGGTCAT  
GCACCATGCCGCTGGCTTCTGGACCCCGAAGGTGCTATGGAGCCCAGCTCCATTCCACTG  
AGTCCAAAACCTACGAATACAGAGGCCACCAGCACTACTGAAATGCCAGCAGGGTGTGTC  
GGCATTTGGAGGGCCTTCCAGCAAAGCTTTGAACATGCTATAATTGCTCCAATATAACAA  
GTGATGTTCCAATTAATAAGATAATTTACAGCAATCCACAGTCTCTGCCACAGGTGGTTN  
TTTCTTCAAGAGGGCTGTCCCGGGACAGAACTGGGACAATGCTTGAAGCTTCTCATCNTG  
TCCCCTCTGCCCATAAATTAACCTCTGCTTTCATAAGGGGANAATAAATNTTAAGGAAAAT  
AAACCAATTTGTGCTCTTNAGGGGGGAAANGGANGGGGAAACAAAACACTTTGGGGAGGT  
TCAAGAAAAAGACCCTTTCGGCTTNAATAAGAACNCAAATTTGNTNCCTGGATTTTA  
CTCCTACATTTGNTTTTTNTTCCCCC

Sequence 572

TCGAGCGGCCCGCCGGGCAGGTAAGTCAAGAGAGAGATGGGCACGAGCTCAAAGCCTAGCA  
TCTTTGATCTTACTGTTCACTGGAATGTTAAGAAATTGCCCTTTGTGCTAATCCTCA  
GCAGCAGAGAGAGCTATGCAGGTTCAATTAATAAAAAATTTCTCCAATTAATTTTTTGGG  
CATTAGTCTCAAACTGGTACTCCGTGTGTTGTTCTAATGGTGTTCCTTTTCCAC

Table 2

AAGGATTTCTGAGATTGGCATAGTCCCCTAATTAATTGAAAAGGACCTAAAAGAATAAT  
TGGAAATATGCTTTTGTATGGTTGTTGTATACAAATGTTCTCAGAAGCTTAGGGAAATGGG  
TGTGATTTTCAATTTTACATACATAAAAGGTGCAAGGTCTTCTGAGGGAATGGTTTGCA  
TGAGCTTTAATGTATATAGTTCAAAGGACTTACAGATGAATGAATTTGGTTAGTCAAGTA  
ACCCATACTAATTGGACAGATGGAGCAAGACATGGATGAAGAACACCATCCTGCCAATCA  
ANGTCATTTATAATTT

Sequence 573

TCGAGCGGGCCCGGGCAGGTACCATATCCTGGGCTGGTTAAAAACATACCATCCCTGT  
GATGGTGATGACCATTGACTTCACCTTTCACAAGAATTTATGTCAACGTGTCTAGACAT  
TTGGTAGTAGAGGTATAGCTGTAGTCCAAACCTCTACCAAGCTATGGTTTCTGAGAGCCC  
TGTATGTTAAGTGCCCTACGGAATGCTCAGCATAGTCAAAGACACCTTAGATTACATTAT  
ACGAGGAGCCACACTGCAGTTATTCAAGATTAAGCACTGGCTGGAGAACTGGCTGTATG  
AACTCCAGCCTTGGGTGCGCTGTACCTCGGCCGCGACCAC

Sequence 574

CGCCCCGGGCAGGTACGTCAAGACACTTTTTAACTATACATGACAGTTCCTTGGGGATCTT  
TCTCCAACCTCCCTAACCTTAATTATGTCACTCCCAGATATGCTCTCAAAGTATCCTGTAC  
TTTTTTTTTTGAGATATGGGGAGATGGCAAGGAACAAAAAGAGAGGAAAATGGACAGAAA  
TGAAAAGGTGAGGTACCCCAAGGCGAACTTAGTCAGCTTGCCAATTTTACCTGGGGTTCA  
GACCTCACTCGATTCTTTCCATTTCCATGTCTGGATGGGGGGAGGTGCAGGAAAGGGGA  
CACTCATCTGGGACTGGGTAAGTGTCAAGCCCAATCTAATCAAAACCACCCTAAAGCACA  
CAAGGGACTGGAGAAGAACTAAAAATTTAGAACAAAGATATTTAGACAAGATGCTTCCT  
AAATTCGTGAAATTTTCATGAAGTAAGAATTTCAAACCCAAGNTCATTATCTTCTCTC  
TTTCC

Sequence 575

AGGTACTAGTAAGTTCTGGGTAGGGGTGGATGAGTCCTAGGAGTGGGGGGCCCCAGGCA  
CACAGGAACCATAGTTAACCCTCTTCACCTACAGAAGAGCTCCTCAGGTCAAAGCTTCA  
CTGTACCTGCCCCG

Sequence 576

CCGCGGTGGCGGCCGAGGTACCTTTCTTTCCAGGCCATGGCAAAAAATCCAATTATGTC  
CGTCTTGAGTCTGTGGTCTTGCTTCTTATGTAGTATTTCTTTGTGAGCTGAAGATTAAT  
GCATGGATTACCTCCTTCAGCACATTTCAATTTGTGAAGAAAAGATTCCAGGCAC  
TGAATGTAAATTGAACATGACATTTTGACATTCCTTCTTCTGAGAGCTGGGTGGTCTT  
AGTTGCTGTGAGGCTCTAGACACCGACCATACAGGGCGTGGGGCTGCTCCTGGACATGAA  
CATCCTCCGAAGTTCTCCCCAGTCCACTTTACCCGCTCTGCCCGCGTACCTGCCCGGGC  
GGCCGCTCTAGAATAAGTGGAT

Sequence 577

AGGTACTTTCTGTGCCCTCTCCTCACTTCCATCCCTGTCACTCCTAAAGGATCTCCCTC  
TCCTGCTAGGATTCTTCAGACCATGATCTGAAAACAAGTATTAGAGTAAGTAATGCTT  
TGGGTGCTCTTCCAAGAATTCTATCCCACCTTTTACTTTTGTGATACCCAGTTAATCCTT  
TATGACCTAACTTTCCATTACATCAAAGGAGCATAGGGTCCAGAATCTTACAGGAGTGCA  
TGACTTTTCCACAGGCATTCTGGCTTGCTTGTCAGGCCACCTGAATTAGGTATTGCTTN  
TTTCTCTCATAATCAGCCATATGCTAATCCCTCCCGTTCTCTATTGGACAGACCAGAACC  
TCTAAGGAGGGGCTGAGCTGCTTGCTTGACGAGACACAAAAGCACTGCTACACAGCAAGA  
AGGTTGAAGTGTNGGACACAGGCACTGCGGGGGGG

Sequence 578

GTGACCCCCGCGTCCGATTCCAGAAACACATCGCTTTCTTCTCTGTAAGTGTAGC  
AACACAAAGACACAGCCAACAATTTCACTTGGTGGTCTGATGAACTCTCATAAATGCCTT  
GTTTACAGCATAAGAATGTAAGTACATATTTATATATCTCTCTGACAAAATATCCTTT  
CCATATATCTGATGGCCATTAATTTGGACTTAAGTATTTTGTCCAAAATGAAATTC

Table 2

AGGGCCAGGGAAGAATAAAATGTAAGTAAAAATTTCTTCTAACTGGTATAAATATTTAA  
TTAAACTTATATGCTAATTGGAACAATAATGGCCCTTTGGATGATTCTACATTACAAGCG  
TCAACTGAAATAAGGTCCCCAATTGTCACTGAGAACATCAAAGGGATCTTACTTTGAGGA  
ATAAATATGTGATTATAGTGATTATGTGTGAATTGNGGTTATATTCTTCAATAAAAGAAA  
CATTGCTGGGATTACAACCTCTCCTCTGGAGACTTAAGTCAAATAAAATTAACACATTAT  
TTGAAACACCCACANGGATTCTCTGGCAGCCAGAAATAAACCAAATTATTTTACCCAAAC  
C

Sequence 579

CCGGGCAGGTACGCGGGGGGACTTACAAGATGGATAGGACCTGGTGGCAGCTGTCCTTGA  
GGAAGCCAGAGCCTGGAGAGACAGATCTCATGTTATAGCAGAGTACCT

Sequence 580

CCTATAGGGAGTCGACCCCGCGTCCGTTCTAAGCCTGCCCGCTGGGGCTCTGTAACAT  
GGCTCCTAACGTGGGGAGCCCAATCTAGCTATATCATGTTAGCGAGAGCTCTTTGTAT  
ACTGAAACAATAAACTTACCATCTTGATGAGTTTACATGTAGAATGGCTTAGGTTATAA  
GGTACTGCCACCTCATTCCACTGTTGAGAATTGTCTAATGCAAAGCTCACTTTTAAACA  
TGGATAATTGGACAGTCATGAGTGGATCATCGAAGGGATAAGCAAAATATATGTCAAAC  
GAGAATTAATATCTATCAAAACACTTGCTATTATTTGGTAGATGGGAGGTTATTTTATT  
TTAAGAAGTAGATTGGCTGAATGGAAAAGCAAAATGTGGCATAAAATAAATGGGATATT  
GTTTCAGCAGTGAAAGGAATAAAGTACTGATATGGACTACAACATGGATGAACCTTGAAAA  
CATTATGGCAAAGTGAAAGAAGCCAGTTACAANGCCGGGCACCATGGCTCATGCTTGTA  
TCTCAGCACTTTTGGGAGACCGANGTGGGTGAATCACTTGAGGTCANGAGTTCGAGACCA  
GTCTGGACAACCATGGGGAAACCCCCCGTCTCTACTAAAAAAAAAAAAA

Sequence 581

AGTCGACCCACGCTCCGCAGTCACCAGGGAAACAAGCAACATCATCATGGCACAGGTGA  
GCAGGGACCTAGAGGGTAAACCAAAGCCCAACATGCAGAGCCATCATAAGATCTTCACC  
CAGAGGGAAAGACTCTGAAATCTGAACATCTATCTATAAGCAACCGCCTTTTCAGTCCT  
TAAAGAAAGGAATTAATAACAAATGTTTTCAAGACATCCACAATTAACCACTCATGCA  
CCACACACACAGCAACCACCCTGCACACACTGTCTCATTAAACCCAGACACTGAGAAATC  
ACTCAAGGCCTTCTCTGCAGTTCAGTAAGGCTCATGATGATGATGAGATCTGTTTTAGAA  
AGTAACTCTTCAGGAGCCAACTATATTTTCTTTCACACTTCAGTTGTGTGAGTAAAT  
GTGCAGCCCAACTACAGTATGATTACAAAGGACAACCAATGAAACACAAAGTCTGTAAAG  
CGGAAGAAGACCACCTGGAGATTTTCTTTTCAATCAGCAGAGATTAATTAGCCTACATT  
TCTTAGAAATGTGGACTTTACCATAGACAATATTTTCTTCCCAAGGATGACCATTCTTA  
GACNGNCCAATGCTTTCCAATGGTGTGGCCCCCAAAATTTTGGACCCACTGTGTAAAA  
CCTTTTT

Sequence 582

GGGAGTCGACCCCGCGTCCGTGCATTTCCAAGTACCTGTTTCACTGGGAC  
TGGTTAGGCAGTGGGTGCAGCACACGGAGGGCAAGCAGAAGAAGGGTGGGGCATCTCCTC  
ACCCAAGAAGTCCAAGGCACGGGCAAGGGAGTCTCCCTTTCCAAGCCAAGAGAAGCTGTA  
ATCTACAAGGAACCTAAACAAATTTTCAAGAAAAAACAACAACCCCATCAAAAGTGG  
GTGAAGGATATGAACAGAATTTCTCAAAAGAAGACATTTATGCAGCCAACAGACATATGA  
AAAAAAGCTCATCATCACTGGTCATTAGAGACATGCAAATCAAAACCAATGAGATACC  
ACCTCATGCCAGTTAGAATGGCAATCATTAAAAAGTCTGGAAACAACAGATGCTGGAGAG  
GATGCAGAGAAATCGGAATGCTTTTACACTGTTGGTGGGAGTGTAATTAGTTCAACCAT  
TATGGAAGACAGTNTGGCGATTCTCAAGAATTATAGAACCAGAAATCCATTGATCCCA  
CAATCCCATTAAGTATATATCCCAAAGGATTATTAATTCATTCCACTATTAAGAC  
CCATGCCCNCTTATGTTTATTTGCAGCACTTTTACCAATAGCCAAAGACTTTGGGAAC  
CCACCCCAATGCCCATCAATGATTAGACTGGATTAAAGAAAAAATCCNCATACNCCAT  
GGGGGATACTACCGCAGNCNTTAAAAAAGAACCAGTTCTTTTCTTTGCCNNGGGNC

Table 2

ATTGGGATGAAANCTGGGAAAACCCCTTTATTCTTTAGNNNGGCCCCCCCCCCCCCCCC  
CC

Sequence 583

ACNTTTATAGGGAGTCGACCNACGCGTCCGCGGACGCGTGGGTAAAGAATGGGCAGCCAA  
GCCAGGCGTGGTGGCACACACTTTTAAATCCCAGCACTTGGGAGGCAGAGGCAGCGGATT  
TCTGAGTTCGAGGCCAGCCTGGTCTACAGTGAGTTCCAGGACAGCCAAGGCTACACAGAG  
AAACCCTGTCTCGGAAAAAAAAAAAAAAAAAAGAAATGGGCTGCCAATCCACAGCCACCCTGAC  
AACGGGGGGTGGGGGTGGGGTAGCTAAAGCCAATTTGAAGAAAGCCCCCTATGAAAGGGCG  
CTTTTTCTTCAAGGTACAGACCAGTCCAAAATGTACAGACACCCCTCACTATGAACACA  
AACAACTCCTGGTGTAATTACCTAACTACAGTTGGGAAATCTAACTGGCTTTAAAGGAA  
AAGAGAGCCTGCCGTCTTTTGTGGGTGCCATTTTATNTAGATGGATATATNTTTGAGCT  
TTTGGGTCTGTTATGCTT

Sequence 584

GGAGTCGACCCCTCGTCCGCGCCCCCGCCCGGCTAATTTTTGTATTTTAGTAGAGACG  
GGGTTTCACCGTGTTAACCGGGATGGTCTCGA?CTCCTGACCTCGTGATCCGCCCCGCTC  
GGCCTCCCAAAGTGGTGGGATTACAGGCGTGAGCCACCACGCCCCGGCTGATTTTCATTGTT  
TTTTATGTCTGTGTAGTATTCCATGGTGTGTATGTGTACATTTTCTTTATCCAATTCAC  
CATTGATGGGTACTTAGGTTGATACCATGTTTTGCTGTTGTGAATAGCACTGCAATGAA  
TGTATGAGTGCCTGTGTCTTTTGGTAGAATGATTTGTTTTCTTTGTGTATATACCCAG  
TAATGGGATTGCTGGGTCAGTTGGTAGCTCTGTTTAAAGTTCTCCGAGAAATCTCCAAAC  
ACGGTGGAATGTTGGCCTGTAGTTTTCTTTTTTGGTGTGCCTCTGCCAGATTTTGGTAT  
CAAGGATGATGCTGGCTTCATAGAATGAGCTAAAGGAGGANGCCCCCTTCTCCATTTTTGG  
TATAAGTTTTCAGTAGGAATTGGTAATGAAGTCTTCTTTGTAACTCTGGGAANAATTT  
TGGCTGTGAAACTCAATCTGGGCCAGGNGCTTTTTTTTTGGGTTGGTAAGGTTTTTTTTT  
AAAATNACTNGATTCAAGTTTTTGNAAATTTNGGTAATTGCTCTGGTTCAAGGGTTTTTC  
ANCTTTTNTTCTGGGTTTCAATCTTTGGAAGGTTGGGGGTTTCCANGAAACCNNTNC  
CATTTTCCCNNTAACATTTTCTTTTCTTTTTTTTTTTT

Sequence 585

CCGCGGTGGCGGCCGCCCGGGCAGGTAACAGACCCATTTAAAGGTGAAGAACTAAT  
GGACATAAGTTTCACAGACTCAAAGTCTTACGGAGAGTTTGGTAAACCCAGATCTCAACT  
CAGATTTTCCAGTTCTGCTAATTTTCCCCATTCCCCTCTGGTGTGCCTTTTCAACTTGG  
GTTGTCAACAGGCAAATGGGACCAGTGGAAGCATTACAGAGAGAAGATTGATGGTTTTTCAG  
ATGTTTCTTCTCTCCCTGACATGATGTCTTAGGCACAACCACAGTATTTCAAGTGGTTG  
AAAATCAAGCTGAGCTAATGGGGGCTGGAGTGAGGGTGGAAGGGCAGACCCAGAGACTCA  
ATCTACCAGATGCTCATTCTCTTCCAGCACCCACCCTACCCCATCAATTGTTCTGGCACC  
CACCACAAAGCCCTAAGAGCCTTGGTGGAAAAAGTCTGGGAAAATACTGTGGTANGGGCC  
AATCAAAGTGACGATNGGCCACCACTTANTAAGTTCTNCAATAAACANGGGCTTCCAAA  
GCATTTTNGAAACCTAAGAAAGGTAAATCATTCCATGCAACCGGACATACCAAACAGATG  
CTCAGAAGCAATTAAGTACCTTGGGCCGCTCTTANNAACTTAGTGGGATCCCCCGGGGC  
CTGGCAGGGAATTCGANTATTCAANGCTTTATNGATACCCGNTCGANCCTCNAANGGGGG  
GGG

Sequence 586

TAGGGAGTCGACCCCGCGTCCGGCCACCACATATGTGGTAATGTGTTATAAGCAGCAATA  
GGAAATTAACAATTAGGAACTGTGATAGGGACAACCCATGTGAGAAGTGACAGTGGA  
TAAAGAGAAATTGTTGAACTGCAGAAGTTTCAAGAAGATAGAATTGCTGGGCACATCAGG  
GTACGCTTAAGTAAATAAAAAATAAAATAAAAGAATTGTTGAGTGTGCTGGCTCACAT  
CTGTAATCCCAACACTTTGGGAGGCTGAGGTGGGCGGATCGCTTGAGGCCAGGAGTTCAA  
GACCAGCCTGGGCAACACGGCGAAATCCCATCTCTACAAAAAATTCAAAAATTAGCCAGG  
CATGGTGGTGACGCTTGTAGTCCCAGCTACTCAGGAGCTGAGGTGGGAAGATCGCTTGA

Table 2

GCCTGGAGGTCAAGGCTGCAGTGAGCTGTGATTGTGCCACTGCACTCCAGCCTTTTTTTT  
GACACAGAGTGAGACTCCATCTCANNNNAAAAAANNNNNNNGGGAANGGAANNNNNNNN  
ANNNNNANNNGTGCCGGCCGCT

Sequence 587

TTAGGGAGTCGACCCCGCGTCCGCTCAATTCCATGTCCTAAAAGGGAGGTCAGAGAGTTT  
TCTGACAAGTCTTATAGGTTGTCAGCACAATTGTGTCAAGGTACTCAACAGTTCTTGAGC  
ATTTACTTAAACGAACTTATGAAAGACTGACCCATAAGATAAATGGGTATATCCACTTA  
CAATGAGAGATACCTTTCCAGTGACCTGAAGAAGTGTCTAGAGTACCAAGTGCCATTAG  
GAATGATGAGAGGCAATACTGAGATTAGTCTGTGAAAAAATTAAGTAATAAAATACTAG  
GAATATATGATATGTACATACATCTTCATATATGTTTAAGTTTACAAATATATGTGGTAT  
ATAACAGGGGACTGATTTAAGTTAGATTTCAAGTTTGAAGGAAACCTAAAGGATAAGCTG  
AAGGGAAGATAGAGAAAATAGAGGCCTAACTAAGCCCGGTAGTGGGAGTTAAAAAGAA  
AGGATGAATACAAAATTTCTGCATTAATGAGTGGTACCGTTTGCCCTCAGTATCTGC  
AGAGAATTAGTTCCAGGACCCCATTTACCAAAACCTG

Sequence 588

GTGGTCGCGGCCGAGGTACTATGGCCTGACTGAGAAGGCCTAGATCCTTGAGAAATCGCC  
CCAAGGTTTCATAAAGATCAGCTAAGCAACTCATGTTGTCCTCGCCTTCGCAGTTTTTCT  
CATACTGCTTCAATGAATCGAAGTATTCTGTTGCCATTGCACTTTTGTCTTGCCAACAA  
ACTGCCAATAACTCAGCAACTCAGCAAAGTATCCCTTTTATAAAGGTTTGAGACACAA  
AGAGATTAAGAAGGCAACCATGCAGCTTCTGTTTACTTCCCTGCTGCTGAAAAAGCCACG  
GGAGTTCATCTGCGCTTCTCCAAGTCACTCTGTCCTGACTTAGCTGCAAGGTGAAATAGT  
TGATTAGCTTTT

Sequence 589

GAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCATGCTGACATTCTGCAAAGTCTGCA  
TTCGCAAAGCCTGAAATGATTCCAACCTGCTGCTGAAGGACTTTCATGCTGATTGTGGTT  
GGATTNGATTTTNTGATTCTGCTATGCAGCCATATTTTAGCATTGAGAGAAGCAACGGAG  
CATANCGTGGTGGTGAANACAGGCAGTCCGGAGCCGCCCTGCTGAATGCCCGCTCCATTC  
CTNGCTGNCTGNGTGACCTTANGGAGTTAACTCTCTGTGCCCGTNTACTCATNTGTTT  
ACTGNANNNCACTTTGCTTTANCCCTCNNTAAGAATTTAANGATCTTGGAACGCCNGNA  
ANGGAGAACCGGGAGTCAAACCTTNATCCTTCTTACCCGGTGGCCGCTTTTATNGTANC  
CACNNGGNTTACCNTGCCAGGCCGGGAGAACTGTGCTAACATAANTGGGANCCCCCNC  
GGGGGTGCAGGGGAAATTTCTGATATNCAAAGNTTTANTCGNATACCGNTNCGAACCCCTC  
TGAAGGGGGGGGGGGCCCC

Sequence 590

CCGGGCAGGTACAAGTTACCTACCCCTTCTTGCCTCAGTTTCTCCTTTGTGACAATGG  
GGACAATAACAGAACTGCCACACAAGAGGGATGTTAGAGAAGTACCAAGCGAATGTAA  
GTAATGACTTGGAGCAACNTATGGCTAAGAGTAAGTTAGGGGTTGTTACGATGACTTTCC  
TGAGATAAACAGGGAGATCTTTTAGCTGNGGGTCAAGTGCANGAGGGACAGTGGGAGCTC  
AAGGCCTAATGGAACTAACACTAATTGTACCTNNGGCCGCTCTAGAACTAGGTGGATC  
CCCCCGGGCCCTGCAGGGAATTTNGATATCAAGCTTATCCGATACCGGTCGACCTCNAGG  
GGGGGGGGCCCCGGGGACCCCAAGCTTGTTGTTTCCCTTTANNTGNAGGGGNTTAAATNT  
GCGGCCGCTTGNCCGTNAAATCATTGGGTCATTAAGCCTGGNTTTTNCCTGTTNTGGAA  
AAAATTTGNTATTCTNGCNTCCAACAAATTTCCACAAACCAAAACAATACNGAAGCCCG  
GGGNGAGCCAANTAAAAAGTGTTAAAAGGCCNTTGGGGGGTTGGCCCCCTAAATNGGAG  
GTTGGANGCCTTAAACCTTCAACAATTTAAATTTGGCGGGTTGGCCGCTTCAACCTG  
GNCCCGGCTTTTTCNCAAGGTCTGGGGNAAAAAACCATGNTNCGGNGGCCCCANNNTT  
GCCATTTTAAANTNGGAATTTGCGGGCCCAACCCCNCCGGGGGAANNAGGGCCGGGTT

Sequence 591

Table 2

CCGCGGTGGCGGCCGAGGTACAAGTTGTCTTTATGCTGCGAGATAAGTCCTCTCTTGTT  
 TGAGCTCCCACCTTTTCAGTGAACCTTACATTTTGGGGGATCTGCTCTTGTAAGGACA  
 TCCTTTCTGGTGAGTATTCTTTGGTTAATTTTGGTTTGGTTATTTGTGCATGAATTT  
 AATCTCATTAGGAAACAAGTTAAGTTGAATAGACCAACTAGTGAATTAATCCGTCACCAA  
 AATATATGTTTTGGCATTACCTGTTTATTTTGAACCTCTTTGTAAGAAATGTAACCT  
 GTAATGATAATCTCTGCTTTGTAAGGATATCTCCCTCTCTGACACCTAAACACTAGATG  
 CTTTCACAAAGCAAAGGAAGAGACCTAAATCTATCTATCTGTGTAACTCACCCTTGAC  
 CATTTCAATTTGAAGGCTTCCTATATATGCTTTTTTTCATCTCAACAAATAGTGGTGTTT  
 AAGTTCTGTACCT

## Sequence 592

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTAAAAATATAGCA  
 ATGTGGGTGGGCTCCAAGGACTGTTCTTCAGACCTCAAATCCACATGCTTATAGAAGAC  
 CACATAGGTCAGAGCAAACCTCTCTACACCTGTCTTTGTCAACTGTCACCCAGTTGAAGAT  
 CTCTGAAGCTGCATGCCGATTTAGGCCAACAATCAGACTATGTAGCATTACATTTACAT  
 TTGCTGTGTGTGATAACATGAAGCCAGAAGGAAGGAAAATTTGTGGCTGCTGGTTTCCC  
 TGACAAGCAGTTTGAAGGTCAAAAGAAACCAACCCTGGAGGAACTCGAGTTATGACAGAG  
 CAATGTTAAGTGTAAGCTAGGAGGGGAAGCCTATAGGGCTAGGATAGGGGTGCTAACAGA  
 TAAAGTGGCAAAGCAAGAGAAGGAAGGGAAGACGGCAGATGAGGAAAGGTGCCCTATCCA  
 TAGCAGGGATGCAATGCAAAGACAAATCTAAGGTTTCTGTTTCTTACCACCTCCTGGCCT  
 AGGTCTGGCTTTGCTATTTCTAGCAGTGTGACTTGTCTCGGC

## Sequence 593

GTGTGTGCCTGTAGTCTCAGTACTCAGGAGGCTGAGGTGGGGGAATCTCTTGAACCTAG  
 GAGTTCAAGGCTGCAGTGAGCTATAATCACACCACTGCCCTGCAGTCTGGGCTTCAGAGT  
 TAGATTTTCATCTCATGAATGAGGGAATAAAGGATTAATAGAAGTAGGCAAGCAAAGGGG  
 GAATGAAGGGTATTCTAGGCAGAGGGAACAGTAAAGTCTGAGACAAGACGGAGTGGTATG  
 TTAGAGATACTACAAGACTTTAAGTACCTGCCCCG

## Sequence 594

AGGTACGCGGGGACATTCAGAGGTGAGCCAGAGCGGGTAAAGTGGACTGGGGAGAAGCTT  
 CGGAGGATGTTTCATGTCCAGGAGCAGCCCCACGCCCTGTATGGTCGGTGTCTAGAGCCTC  
 ACAGCAACTAAGACCAACCCAGCTCTCAGAAGAAGGAATGTCAAAATGTCATGTTCAATT  
 TTACATTCAAGTGCCTAGAATCTTTCTTCAATTTGAAATGAAATGTGCTGAAGAAGGTG  
 AATCCATGCATTAATCTTCAGCTCACAAGGAAATACTACATAAGAAGCAAGACCACAGA  
 CTCAAGACGGACATAATTGGATTTTTTTGCCATGGCCTGGAAAGAAAGGTACCTGCCCCG

## Sequence 595

AGGTACTTGGTGAAGTGAGATTCAGACTGAGTGGGGTCACAGCACAGGGCACTGTCTTGC  
 CTGGCTTTATCTGAGCCAGTCACACCTCTCCTGGCCACTATCTGTGGTCTAGCCCCCTTT  
 GTGCAGAAAGAGAAAGAAGAGCCTTGAGGACCAGCCTAGTCAGCCGGGGGCCATTGAGAC  
 TGCCATGGAAGACTTGAAAGGTCACGTAGCTGTACACTTCTGGAGAGACCATTCAAGGCT  
 TCTGGCTCTTGACAAAGATAGACCACTGGAACAATGAGAAGGAGAGAATTNACTGGTCA  
 CAGACAAGACTCTCTTGATCTGCAAATACGACTTCATCATGCTAGGGTTGAGTTGCAGCG  
 CGCAGCGGATTCTCTGAGCGCTGTCTATCGCATCTGCCTGGGCAAGTTTCGCCTTCCCTG  
 GGATGTCCCTGGACAAGAGACAAGGAGAAGGCCCTTANGATCTACTGGGGGAGTNCGGAGG  
 AGCAATCTTTTTGTCCCGCTGGAACCCATGGTCACTGAAAGTTCCTTATGCTACTTTCAC  
 TGAGCATTCTATGGAAATACACCANNAGGAAAATTCCTTGA

## Sequence 596

AGGTACTCAGAGGTTTCTGGCTCCAGCCATTGCTCTCGACCTCACAGCTACCCATTGGG  
 CCAAGCCACCTCCAGCTCTCACCTGACTTGCTGCAGTGGTCTCCCAAGAGGTCTCTCCAC  
 TCAGTCCCTGCCACCTTCAGCCTGTTCTCAGTGGAGGGGGCCAGAGTGACCCTGTTAAAA



Table 2

CATGAGACCTTTACGTCCAACCTCAGCTCAGACTTCCCCATGGTTCCTATCACACTCAG  
GGTCAAAGTGAGAGTCCCTAAGATGACACACAAGTAGGGAGAATGCCCTTCTCGGCTGGA  
CTGGGACAGCTCCAGGGTATCCCTATTGTCTGTACCTGCCCC

Sequence 597

CAACCGTGCTGGTCACAGGGCCAGAGGCAGAGAGCCCTAACAAGCAGTCAGGGCGCTAAT  
GAGGAAGGGGGGGGACAACCTGTCTCTACAGAAAATAATGAGATTAATATGTTCAACAAC  
TCCCATCCAGAATCCAGCAGGAAGTTAAACCAAACGACACATGATTCTCTGACGAAGAAA  
TAAGAATACGGTTGACTGGTTTTTATATTTATTTACCTGAAAGCTTCTAATGTTTCTAA  
CTAGTGACATATTTACAGGCCAGGAATTCTGTTTGCCTAGATCATGATGTCTAAACACTGC  
ACACTTGACCAACTTTGGGATCCAAATAACTAGCTTTGTATGCTCTTGGGCCCTGCAGTA  
CCTC

Sequence 598

AGGTACAAACGAACTCTGAAGAGTCGGCCAAGCAGATCACATGACTCATTGAGCTTTAAT  
GCCTGCACTGGAGCATAAGCAGGCCTATTTCTAAATGTGGAAGCATCCAGTATCGCTGA  
AACCCTCAGAGCCGAGACAGTCACTCTGTGGAGAGAGAACAGAGGGCTGGGAACCCAGCC  
ACGGCCAGGGAACTGGACTCTAAGGACAGCAGCAGAGTCTGCCTTTGCAGCACGTTATAC  
AGTTTGCACGTATTACCTTATTTGATTGATCTCATGAAAACCAGAAAGACGACAGTGAC  
TAAGTTCCTAAACCATGAGCACAAGACTTTCTGGAGGAAAAAGGAAAGCCCCAGGAAGAA  
GCGGAATTTGTCACCCAGGTCAAGCGAGCTTGCCCTGAGCAAAAAC

Sequence 599

CCGCGGTGGCGGCCGCCGGGCAGGTATTAGTCAGCTGCTGGTGAGCAACGTGGCTCCT  
GTCCCTATGAAGCTTAAAGTCTAGGGTAAGGCAGACCCTAGGAATTCGGCGCACAGAAGC  
CTCTCTGCTGTGATGGAGAAGTAACAGGGACGATGAGGACATAGAGCAGGGAAGGGGGCC  
TAGGAAGCTATTCTGGAAGAAGTGAGTTGGTTCCTGAAGTTGAAGCACCTGCAGAGGTGA  
GGAGGTGGGGAGCAGAAAGTGACAGGATCCATCTGTGCAAAGAGCCTGGGGCCTCAACAACA  
TGAAGTGTTTAATCAGATTTGCATTTTAGAAATGATAACCCTAGGCCTGGAGCGGTGGC  
TCATGCCTGTAATTCCAACACTACGGGAGGCAGAGGCTCTACTAACAATCTCTACTAAA  
AATACAAAAATTAGCTGGGTGTGGTGGTGCATGCCTGTAATTCCAGCTACTCAGGAGGCT  
GAAGCAGGAAAACTCTTAACACAGGAGGCAGAGGACGCAGTGAGCCAAGATCACACCAT  
TGCACTCCAGCCTGGGGTGACAGAGCGAGACTCTGTCTAAAAAAAAAAAAAAAAAAAA

Sequence 600

AGGTACGCGGGGGGGATGGGTGTGGAGGCCGCGGAACCTTGGCGGGGCGCAAGCTATATG  
CCTTGTTGATCTTGCCGCATCTTTTTACTAGATGTGGGCTGAGTGAGTAGCTACAGTTT  
TTAACATGTTAACTTGCGGCCTTCAAAAATTGTTAGCGGACTTTCTCTGTTGCCTCCTC  
AGTGAGCTCTGCCCTTTCTCGCAACTCCTTGTCGTCCCACCGCGCCTCTGCACCTCAGAG  
GAAGGAGAAGAGTAGCGAGGCCGAGCGGGTTTTTAGATTTCTCTGTGATTACCCCCAGCC  
TTGTCTTTCTGACTTTACCGTCCCCGCTTGGGGTACCTGCCCC

Sequence 601

CCGGGCAGGTACGTAAGTTGAAGTCCAGGAGGGTTCCAGACACAGAGCTTCTGGTGTCTT  
CTCCCTGTGGAGTCAGGACTCATTACTCTGCTGTCTTTGATGTGTGACAACAGGCACCAA  
CTATCGCCAACTAGAGAAGCTCACCAGAGCTCTGATGTTGGAAGTTTTATTGGGGCCTC  
AGCATGTAGACATGATTGACTGGTTGGTGGATTAAGTGTCTACATGGTTAATCTTAGTGT  
CCAGGTCAGCTGATACTGCGTGACCAAAAGCTCCTACCCCGAATCCCTTGATTAGTATTT  
CTGGCATAGCAAGCCCCCATCAGAAACAAAGACATTCTCTTAGAGGTAATATAGATTAC  
CTTTCAGCACCAGAGGGCAAAGGCCAGACTACTTTTTAGGCAAGTACCT

Sequence 602

AGGTACACGTGCAGCAGAAGGCTGGTAGGATAGTTTCTTCCACATCCATGTGAACCTCAG  
AGTCATCTGACCAATTGGCCTTGTCTCTTCCAGGTTCTAGCTGGCCAGAGACTTTTTTGG  
CCTCATACTAACTGCAAAATTGCACACAGTTGGCGAATACACCACTGGAAGCCACTGTGG

Table 2

CTGCATTGTCACAGTTCACCAATTGTGCATGTTATTTCTGCAGTGGGCCCCAAGATCACT  
 GACAGGATGCCGTCGGGGTTGGGCTGAAGGTGGAAACAGCACACTAGCTTGCTGTTTGTG  
 GCCTCTTTACAAGTCCCGGCCCCATCTGAGATCCGGAACCAACACGTTGCTAACCTCAGC  
 CCATTGGGGCCAGTGGGGCAGCCCGGCAGTGAACCATANCTTTCCACACCTATGTCTA  
 TTGGCACC GG TAGCTGCCCCGCCCCCAAGTTTCAACTGNCATTCCCCCTTTGNCATTGTG  
 GCCCCCCCCAANAANAANAANTTAGGGCCCCAAAAAAGCCTGGCCTTTNANGGGNNG  
 CCCCCAAAGGGGTNATNTTTNGGGGGGGGNTNAACTTTTTTGCCCCAAAGGGGGGGNA  
 AAAAAAATTTTTTNCCTTNAAGGNNCTTTTTTTTTTNAACCCNGGGGGGGCANA  
 AAAGGGGGCCCCGGGAGANNNTTTTTTNTNTGNNNNCCCCCTTTNTTTAATAANA  
 ANAAAATNNGTTTNTTTTTTNCAAAAACNCGNGGGAAAAANTTTTTTTC

Sequence 603

AATTCTCACATGTGCTTATTTTGAATTAACCAATGCAAAAGTTTTTACCCTGAGGTGT  
 TGCTAATTCATGAACCTATTCTCTTGACAGTTTTTCCCTCCAATATAACCTATATCTTAT  
 TAAATGCTTTTCTTCTCTAGATTGTTTCCAATAGTAGCTCAATTTTAGCTTTGTTGAG  
 GCTCCAAATTAGAAAAACGCTGAGATTAGCCAAATATTTGAACACTGTAAGGTATTAATC  
 AGTTTAATCTGAAAAAAGGTATAAGAACACTTCCTACAGTTCAGAAAGAGTGAGCTG  
 TCCTGGCTGAGGGTTATTTNATTAAGCACCTACATGTNTGGACCACTAATNGGGGNGGGC  
 NNTCNCNNAGGGAAAGNTGAAAAANNCCNGGGACCCGGGGGNTTTNNNGGTGGGATCC  
 CCCCCCTTTTTCAGGGGNANAAAAAGTTTTTNGTTTTTNCANACCCATNGCCCNNTTTT  
 AGGCTTTTCTTNAAAATCCCATGGGNTTNCNTTGGGGCCAAGGGGGCTTTTTTTTTTT  
 NCCCCAAAAATNTGGGGGGGGGGAANAANCCCCNTTAAANNNGGGGGGGGCTTTTTT  
 TTNNTNTGANATTANNNGGCCCAAAGGANNNANGGGANAACCCGNTNTTCTNTNTTCCC  
 NATGGGGGGNGGNGNNTTAAAAACNCCTNTNTTGGGGGNGTTTTTAAAAANCCCCCN  
 ANAAAAATTTTTNNAANGNGAAACCTTNGTNTNTNTTGANANCCCCNCCCCNCTTT  
 TTTTTTNAAGAGGGGGGGGNNNNCAAAAAA

Sequence 604

CCGGGCAGGTACTGCCTTTTTGGAGCTCCTCACGCATCACCATTCTCTCTACCTATGAT  
 TCCTTCAGCTTTTGTTAATGCAATTGGCTCGCTTTTTGTTTTGTTGAGTCTTGATTAAAT  
 TTCCAGGCTTTGCTCTTCCAGCTTTGTCCAGAGACACATCCTGTCTGTCTTAAGGACT  
 TCTGCAATCAGTAATCACAGATGTTGCGTGCAGTTCAGTATCTACTCTCCTCGTAT  
 TTTGGGGTGGCTTACTGCATACCCACGAGTAAGAACTTCTTTGCAATCAACAGGCAATTT  
 GCTGGGGTGTCTGGGGTTTGTTCATTATCAAACAACTGGGATTCTTACCCAGTTCCTAT  
 CACTTACAGTTGTGTGTGACCTCGGGATGAGTTGCTTAACCTCCTGAGCCTAGNTTCT  
 CTGCTGAAATATANAATCGGCAGCATNACAAATTTTTTAAACTCNTTACTACCTGTTN  
 ATTCACCTCANGTTTATGAACTGGGGGCCCTGGGGGTACCCTTCGGCCCGCCTCTANAA  
 ACCTAANGTGGGANNTCCCCCNNGGCCTGCAGGGGAAATTTTGAATATCNAAGCTTTA  
 TTCGNANACCCGNNCNAAACCTCCNAGGGG

Sequence 605

CCGGGCAGGTACTCCAGCAATCCATTCTTTAGGTCTGCTTCTCAGGAGCTTTATAT  
 GAGATCTTCTCTTTGAGAAGTGTGTCTTAATTACAAAGTCTCCTTATTCTTTATGCCTTG  
 AGTCTTGGTGCTGGTTTTGATTTTTCTCTGCCTATTCTCCTCTTCTCCTGACTGTTGGC  
 CTGCTCTAGGCCTTGAGGTCTAGCTGTGCCATGATTGATAGCTTCACTCTGAGCCCTGAC  
 ACTTCACATGGTTGCTGGGATCCACCAACTCTCCAGGCACTAAGGACTAGCACTTTCTG  
 GAAAAACAACAGCATGCAAGACTTTTTAAACCATGGGCTT

Sequence 606

CGAGGNACTTTTTTTTTTTTTTTTTTTTTTGGGACGGAGTCTCGCTCTGTCTGCTCCAG  
 GCTGGAGTGCAGTGGCNCATCTTGGCTCACTGCAAGCTNTGCCTCCCGGGTTCACGCCA  
 TTCTCCTACCTCAGCCTCTGAGTAGCTGGGACCACAGGCGCCCGCCACCATGCCTTTTA  
 AAAAATNAGCCAAGGCACAGTGGCATGTGTNTGCAGTCCAGCCACTCAGGAGGCTGAGG

Table 2

CAGGAAAGGACCTGCTTTGAGCCCANGAANAAGNNGGGGGCTNCAATGTCATCCAACCTGCN  
ACTCTGGCCTGGGGTGACAANANNTGAGACCCAAGAAAAAGGAAAAATGGTTAAT  
GNNGGTTATAANTTANGATTTACCANCCCNCCCCNTTATTTAGTTTTAAATTAATTT  
AAATTACCTAAAATTTAAAATAAAATTTAAANTAATTNTAANAANGGNAGGGAACAAGGG  
NNAAAAANNAATGGGGAANGGGGGGAAGGGGGGAAGAACTTATGNAATTTAAAAAAA  
AAA

Sequence 607

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGGGGGCCATTGAGACTGCCATGGAAGA  
CTTGAAAGGTCACGTAGCTGAGACTTCTGGAGAGACCAATCAAGGCTTCTGGCTCTTGAC  
AAGGATAGACCACTGGAACAATGAGAAGGAGAGAATTCTACTGGTCACAGACAAGACTCT  
CTTGATCTGCAATACGACTTCATCATGCTGAGTTGTGTGCAGCTGCAGCGGATTCTCT  
GAGCGCTGTCTATCGCATCTGCCTGGGCAAGTTCACCTTCCCTGGGATGTCCCTGGACAA  
GAGACAAGGAGAAGGCCCTCAGGATCTACTGGGGGAGTCCGGAGGAGCAGTCTCTTCTGTC  
CCGCTGGAACCCATGGTCCACTGAAGTTCCTTATGCTACTTTCACTGAGCATCCTATGAA  
ATACACCACTGAGAAAATTCCTTGAAATTTGCAAGTTGNCTTGGGTTTCATGTCTAAAGCTT  
GTTCCANCTATCCAGNAATGCCACAAGAATT

Sequence 608

AGGTACATTATTATTACTCACATGCTGTCTATGGAAACAGAAGCCACAGTGGTTGGGTCTCT  
GTCCAAGGTTAATGGAGGAAGAAGTAGGGAAGCTAGGATTCAGATTTCAGATTTCACTATG  
TAAAGACCTGTTTCCATTATGCCACATTACCCCTCAGGTTTTCTGAGGTCTAGGTTGCTT  
CCTATCTTTTCTGTGTGTTCTATCTTCTTCCATCCTCATGGGCACTCATGGGATACCC  
CCCTCTCTGTATAGGCATCAGAGTCCATTCAAGTTTCCAATGGTCTGTGGTCTCCACAA  
CCTGGAGGTGCAGATCCATTAGAGAAAGGAGTGCAGGTTNTTGATTGGACATAAGTAACA  
GGCCCAGAATCACATCCCCAAATGTTTCAGATCAGCCCCAGNATCNCAGGGCTTTCCAGC  
CTTGAACCAATGGGTANGGAACCTCTCTGANATGCTANAACTTAAGCCAGCAACCTGTTN  
TTNTTTAACTTTTNCNCAAGTCTTNTTTAATCAAAAGCTTTTGGGNTTGGGTTTTGGGN  
TTTTTGGGNTTTAACTGGNNACCCAGGAACCTTGCCCGGGNCGNGNCNNNTTTANNA  
CTAAGTGGGNTCCCCCGGGGGCNTTGCATGGGAATTNCTGATATTCAAANNCTTTATTC  
GATNCCCCGNCCGAACCTTTTGANGGGGGGG

Sequence 609

AGGTACCTTTCTTTCCAGGCCATGGCAAAAAAATCCAATTATGTCCGTCTTGAGTCTGA  
GGTCTTGCTTCTTATGTAGTATTTCTTTGNGAGCTGAAGATTAATGCATGGATTACCT  
CCTTCANACATTTTCATTTCAATTGTGAAGAAAAGNATTCAGGCTCTGAATGTAAATT  
GAACATGACATTTTGACATTCCTTCTTNTGAGAGCTGGGTTGGTCTTAGTTGCTGGTGAG  
GCTNTTAGTACACCGGACCATACAGGGNCGTGGGGCTGCTCCCTGGGACATGGAACCAT  
NCTCCCGAAGTTTCTCCCCCANTCCACTTTTAACCNNGCTCCCCCGGCGNTACCTTG  
CCCCNNGNCCGGGCNCCGGCTTTNCTANNAACCTTAAGNTGNGNATNCCCCCGGGGN  
CCTGGNNAAGNGGAATTTCCNNTTANTTCAAAGGCCNTTTAATTCNAAATANCNCGG  
GTCGAACNCATCTGGAGGGGGGGGGGGGGGGCCCCCG

Sequence 610

AGGTACATCTTCTCCATGAGTGGATCAAGAAATATTGAGATGGCTAAGCTGGAAATTAC  
AAAAATGTTGGCATACTATTATAGCATATGGTTATGAAAAATCAATGAATATTTATTTA  
GTATTATGCTTTAAGTATATATCCAAGCTGATCAATTAATTACACTTTCAGTGATGAGAT  
GTCAATTCTACATTTAGCTGAACTCTCATCTGAACTGTGTGGCTTCTCAATGACAGGGCA  
TATTAAGAACATGATGAATGTTTGTAATGTAATGATATAAATTATTATAATGTGTTGCA  
TTAAAGACATATGGTGTAGCATTCTACGTTTCAGCTTTTGCAATTTATTTCTCAGTGTCAT  
GATTTGCTCCTGTGATTCCCAGATCAGTTTTCTCCTTATCAGTCAGCATATACATATTGG  
TATTAACACTTTTTCAAAAATCATATATAAATGGTTGTAGAATGTTGTTGTCATTCTAC  
CAGCAACTGGTAGTTTTTGNTCANCGATTAGCTTGNTTTTCATTTATTTAAAGAATTT

Table 2

CAGGGCCCAGTCCGTGGGTGGGCTCACCGCCTTGTTAAATTTNCCAGCCNCCTTTGGGGA  
AGGGCCGACCCCCGGGCCCCGATCCACCAAGGGTTTAGGGAGGATNCCAAGACCCATTTCT  
TTGGGCCAANTNCCGGNGNAAAACCCCAATNTTTACTTTAAAAATTACNAAAAAAAT

Sequence 611

NCCATAGTGGGAGTTGGGGTTGTTTACCCNACACTTCTAAGGGGATTTTCACAATCGGNT  
AANCCCCCGTTAATNCTCACATGGTTATTGCGGCGACCCCCATAGCCACGGTCCCAAAAC  
GTGTGCATNTGAATCATCCGAAGCTCTTTCTAAAGGCAGGCTCCCCTGGCCGCTCTCCT  
AATCCGACTCGGTACCT

Sequence 612

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCTCTTTTCCTCCTTTC  
ATGCCCCGACATATGCCTTTTTTCTACTTATTGTGTAAAGTTCTTCATTTGTCATGGCCA  
TCGTGAGAAAAATCTGGGGCTTCCCTTTTCATCATAAATGACAGGTTTTTTTTCTGCTTCC  
AAAATCTAGAATTTTCATATTTGTAACACCTGGAGGTAAGGGTCATGGTGTTAATTATAA  
AGAGAGCANAGAGAGTAGCATCTGTAGGAAACATCTNNGGTTTTTTAATTATTGCTG  
GAT

Sequence 613

AGGTACTGCAACCGTAAGTGGGGTATATGGTTTCACCGAGAATGTGACATCAGAGCAAAC  
ACTAACATCAGCAAAGGAGTATCTCAGAAAAGAGCATTTTAGGCACAGGAAGGAAGAAAT  
ACAAAGGGCTATGGGCCTGTAGCTGGCGTTTTCAAGGGACCACAGAGTGAGGGGAGAAGG  
AGGGACCAGGTGGTGGTGAGAGAACTGGTATCAGAGGAAGTAGGAATCTGTGGGTTACTC  
AAAGGACCTCGGCCTTTACAATGAGTAACATGGCAAAGTTTTTTAATATTGTTAAGCC  
CAAGAAAGATACTAATTTACACAGTAAGATTTATACTAAAAAAAACAACTATGACAGT  
TACTATAAAAGAGTAGCTCACCAGTTCAAGTTGAAATGAATTAAGGGGCTGGGCACAG  
TGGTAGAAAAATTAATAACAAACATAAAAAATTCCTGCCAAAAAGAAGTTTATGTTATAG  
TGGGAAGACAGCAAATCCTATCCCACAAACNCCCAATTTTTTTTTTAA

Sequence 614

CCGGGCAGGTACTATGGCCTCCACACTCACAGGGTCTCAAGTTGCTATGACTGGAACA  
AACACTATCAACAAAAGAAATTATGGGAAAGAAATAGACTTCAAAATCATCATTTTTCTG  
TCAATAGAATACTATGACAATCTTGTCAGGCATGAATATAGGAAGAAGATCGACCGAAAA  
TTACGCACATACATTTTGTTCAGGAAGTTGAAGTCCTTTGTAGGCCATTCTTTGATTTTC  
CCAGAAAGATCAGTTCTCTTTTGGGGTTTATAGTGGACGGCTTATTAAGCTACTTGCT  
CTAACATGATTTCTAAGATGTGTATCTTTGCAGTATCTTTCAACTCACCTTCAGCTGAA  
GTAAAAACATCCCAATAAGGTCAATTTTCATGTTTTTATTAATAA

Sequence 615

AGGTGGGAGGATCACCTGAACCCAAGAGGTTGAGGCTGCAGTGAGCTGTGTCTGTGCCAC  
TGAATCCAGCCTAGGTGACAGAGTGAGACCCCATCTCAAAAAATAATACTAATAGTAA  
TAACCACAGCACTTAATAAAAAATAATAGCAGCTAGTATATATCTAGCCACATACTTACA  
CTACACACTGTTCTAAACACGTCTCAAATATCAACTTACTGAATCCTCAAAGCAACCCTC  
CGGTTCTCATTTCCCATCTTATAGCCGACAACTGATGCACAGAAAGCTTGAGATGCTTAT  
GAATAAGGAGTGAGGTTGGGATTCTACCCAGGAGGCGGGCTGCAGTGTCTAAGCTCTTC  
AATGCAGGGCCCTAAAAAAGTGCCCAAGAATATCCACTGAGAGACACCCCANAGCTGCTC  
GACCCTTTTAGGGCCTCAAGGGTGCCTGAGTTGATTTCTGTTGCTTGCAACCCAAGAACC  
TGGATTGGTAAACAGATCACTTTACTGGGTTTTACACTTTTTTGCCAACTGGGCCGGG  
ACTTGCTTTCCAGTGCTTGCAATGCNNGGGGCATNTTACCAAATTTTACAAGTTTGGGA  
GTCAGTGATNNGGGGCATTCAAGGGCAANCTTCATTTTCCAANAACAAGCCATTTTTTC  
CC

Sequence 616

CCGGGCAGGTACTCAATCTGTGAAGTGTGTTCTCACAGTGTCCACACCTCCCNNGGGG  
CTCACCTGCCACAGCAGTGCTCTCTGCTCTTNAGTCCACCTAGATACTCTCTCTCTTT

Table 2

GATCTTGAAGNCTCCTTATCCTGACCCATCATTCTTGAACCACTAACCTATAAAGTAAT  
TGCAAATCANACTCCTGTTTCAGGGTCTGTTTCTGAGGATCCTCAACTTCANACACTNTA  
AATTNTTTTCATGGTAATGGTAAGGAAAANGCATTATTTTATCTGAAATATTCATTTTG  
CAATCTTTTCATTAATTATCCAATTGTTGAACAGAAAAAAATTGCTTATTACTTTAAAA  
AATGCNCACACATATTNAATATCTGTTTAGAATCATAGATTTCTGGCAAGTCAGCGTNTC  
CATAATNGTAAACANATTTTCTAACANAAAAAATAGCTTTAGAGTTTCCCTCACCTTA  
TTCATCCCTTAATTTTCATACATTTTAATAACAACTTTTTTNGTATCCCGGNTCCCAAG  
CCCAACTGNAACCTANGGAGGCTTTNAAAATTA

Sequence 617

AGGTACCTTCCAGCTCAGTGGATCAATATGACTTTATGAAGCAAAGTAAGGGAAAGAGGT  
CACTAAAAACAACGATTTTATACATGAGAAGGTGAAAATTCAAAACTCCCATTTTTCA  
ACATAAATGGCTCATGTCTGCTANGAAACATAAAACCCTAGACTATCTTCATAAAT  
GAAAAGACTAAGGCACAATTCTGTCGTCATGTAATTCAGTCTACTANAAGAGACAGACCC  
AAAAACAAAGAGCAATGCTACTGAGTGATAAGAGCAGTAAGGAAATGTGCTCTCACGGT  
TGCAGCTGCTATGGGAACATAGGAGAGGAAGGCATTTTTCTCAAGAACAGTGGGTAGGAT  
AATCATAGGAAAATTACAGAGAAAGTGACATTTGAAA

Sequence 618

CCGGGCAGGTACTTTTAGAAGAGACAGGGTTTCACCATGGTGGCCAGGCTGGTCTCGATG  
TCTTGACCTCGTGATCTGCCTGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGTGTGAGC  
CACCACACCCGGCCTGAATTGCATTTTGATGGCTGAGCCAAATGCTCATTCTATTTAAT  
ATTGCACAGCCTGAACCAAAACCCGTAACATTATAAAGGAAGAGATGAGAGCCATTTCAA  
ACTGTGAGAGAAGAGAAGACATCAAGCAAAATCTGGGGGTTTTAGCCAACAGACTTCAGT  
CCTGGGGCCTTGACAGCAAAAAACGCCTCCAGTTGCCCCAGG

Sequence 619

CCGGGCAGGTGCGGAGGAGGGGAACCAAGGATGCTCATGGAGTCAGCCCTGGAGATTGTCA  
GCAGACATTGTTTCTTTGGGGTAAACAGGAAAAGGAGAGCAGTGGNTGGCACTATGGAGA  
GATGGGGTAGAATGGAGGACAGAAAAAGGTGTTACATGGAAGGCCAAAGACTATCTAANA  
AGCTAAGAGGAACAGAAGTGGGGAAGACAGAAAAATTTGCCGTGTACCTTN

Sequence 620

CCGGGCAGGTACCTGCTCAAGATGCCTGGCTGAGAGTGTGTGGGAGTCTGGTTGGAGCCC  
AGATTTTATATATTTATATATTTTATTTAGCTTTGACCAAAAAAGTGAACATAAAAACTGA  
GTCATGGTAATTAATAAATAACAGATAATTTATCTAAAAATAATCTTGATCTGACTAACAT  
TGGTCAAACATGACGTGACTTTTTACTCCTTAGATGCACCTTGTGACATAAATAGAATCC  
TTCCCTTGCATTTTATAAATGGGAAACCAGAAGCACCAGGAGATGAAGTGAGGGAACTCA  
NCAGTGGGAGGACCTAACTGCAGCCCAGTCCAACAGTGCCAGTCGAAACCTAGTTTTCC  
AATGAAGGACTGCTTTNCTGTCCCTTCGTCTCCTCT

Sequence 621

CGAGGTACCTGAGAAAGGAAAACAAGGTGAGTCCTATTAATGCTTCCAGACTGGCCAGA  
TTTTCTCACTGCAGCCAGCCCTATCTCACATGTATTAATGTTATAATTTACATACTGTA  
TGATGCTATCCTTTGATTAGCGTTTAGTTGATGGGAACTCCAAACCATTAAGAAAATT  
CAGGCCAGCCGTGGTGGCGCCGTGCCTGTGGACCCAGCTACTCAGGAGGCTGAAATGGGA  
GGATGGCTCAAACCTGAGCAGTCAAGTGAGCCGTTATTGTGCCACTGCACTCCAGCCTGG  
GCTGTAACAGAGCAAGACCCCCATCTCTAAAGCAGGAAAAAAAAAAAAAAAAAAAAAGT  
ACCTGCCCCG

Sequence 622

GGGGCCATNGAGACTGCCATGGAAGACTTGNAAGGTCACGTATGCTGAGACTTCTGGAGA  
GACCATTCAGGCTTCTGGCTCTTGACAAAGATAGACCACTGGAACAATGAGAANGAGAG  
AATTCTACTGGTCACAGACAAGACTCTCTTGATCTGCAAATACGACTTCATCATGCTGAG  
TTGTGTGCAGCTGCAGCGGATTCCTCTGAGCGCTGTCTATCGCATCTGCCTGGGCAAGTT

Table 2

TCACCTTCCCTGGGATGTCCCTGGACAAGANACAAGGAGAAGGCCTTAGGATCTACTGGG  
GGA

## Sequence 623

AGGTACCCCAAAACCAGGGGCTGCAGCTCCAGCAATTGGGAAGGCCAAGTTTTCTTGCAC  
GCTCCCCAGAAAAGGGGCCAAGTCCATGGGGCTGAGCAGTGATAGACTGCAGACCTCACC  
ACCACTGAACCTTGTAGGATAAGGCCCACTAGCCTGGGATGCTAGTGACGCCACCCTAGT  
CCTCCTGAGTTCTCCAGCTGGGAGCAGCCCTACACTTCTCCGGCATGCAGCTCCCAAAGA  
GAGAGGCAGTCCACCTTTTTGCTGTCTCGCAACCCTGCCTCCTGCTGCTCTCAGGCTTGG  
GAGGGTGCACAGCAATTAGGGACTATCACAGAACCCACAGCAGNGCATCTGGTGAACCTT  
AAAAAA

## Sequence 624

CCGGGCAGGTACGCGGGTGACATACTTTTGGGCCACATTCTTACAATAATTAAGTGAAG  
GAATTTAAAGAATTCATAGTATTCTATTCCATTTTAAAAATAATCTAAACAGACAAACA  
TATTCAGTTAAAAGGTGACACTGAGTTAAAAGGCTACCTAATAATTTAGGAATTATTTAT  
CCTTCTCTTCTTTGGCCTACTTTTGACATATCTCTAAGAATCATGAGTTAGAATTTTGAA  
ATTACATACAAGTAAATGTGTATTGATTAAAGGTGAACAANGTGATTATCTTATGACTA  
TTGAATTAAGTATTAGAACTTCATGCTACAAATGCCAAAACTAANATACTGGCCAAG  
AANTTTGGAAATACAGGNGGGCCCTGGGNACAGCATGTGTNTGAACTGTGCTGGNCTGCT  
TATTCATGGGAATAAACATG

## Sequence 625

AGGTACTTTCAAAGACTTTAGAACCAATGTCATTGAGCTGAAACCATAATGTATTATAA  
ACTACGTCTTCTAGAGCTTTGTTGTCATAGAGTCAAATGAGATGCCAAATGCTAGCAATC  
CTATTTAGGAGGCCTACTATTAGGATTTAAAAGAAGTGGAAGTGGACTGCCAGAGATGAATTATGT  
GACACAGATGCTAACATCTAGTTATTATGAGTGATCCATTCTGTCATGAGGTAGCACTTG  
AAAAACAACCTGGGACAAAAGAACAGGCCTCTGGCACTACTGAATTTTGGAGAGAGAAA  
CCTTTAGAAGTTAGCATGTGGTTCTTTCTGGACATGTTTCATTGCCTTAGTTCTCCTTTTG  
CAAATATTTTGTAATATTTCATGAAGTGAAATGTAGATGTTTGAAGAAGGCAGATCTGCA  
GATCCCCTAAAGAGCATTGTNAGTTATGCTGGGCTGTTCTACCCTATCCCTCTGNTTAC  
CTGCGGCGGCCTCTCAAANCGTGATCCGTGGTGGCTTTTGTGGGGGGTTTTAAATGTA

## Sequence 626

AGGTACAAGGAGACCCTGGGCAAGCAGCTAGCAGCCCCCTTTCACAACCCTGCAGAGCGT  
CCTGGAGGTCCCAAGCAGCCACTGTTCTTCTCCTAAGCTTGCTGCCATGGCAGCATCCA  
CTCCACCCTTCAGTGCTTGAAGCCAAGTGTTGTGCGCCCCGGAAGGCTCTGCCCTTCTGG  
TTTTAGACTGCTGTGGAGGAGGGAGCCACTTGGAGATACAAAGCCCACCTCTCTAGAATC  
TTCCAGGGTCCCCACAAATTATAAACTATGGNNACACCAGGAAACCAAGGCATTTTCAA  
TAACAACCTTTCTACTGATTTCCAGCTTCATCTTCAGAANTCCAGNGCACTGCCATTTC  
ATACCATNCATTAAGTGTCTCTCTTCACTAGACCACGAGCAGGGNNTACAGCCACACC  
CGAGGAAACCCATCTCATGANGTNTAACTACTGGACCCCCCCC

## Sequence 627

CCCGCGGTGGCGGCCGCGGGCAGGTAAGTAGAATAGGACGTGAGACAAGTGCTCT  
ACTTGAAATAAGCACAGACGTGGAAGAAGGGATGTGTAGTTTTGTCTGGGGATTCGGCAC  
AGTTTTTATGGAGGATGTGGTCTGTGAAATGGCTGATTTGAAACATGAAGGAGGCTGCTT  
ATGGGATGGGTATTNTGGGAAGCAAGCAAGTGCTGAGGGCNCATGAAGGTATGAAGGG  
CCTTGAGATACCTCGGCCGCTCTAGAACTANGTTGGATCCCCCNGGCTTG

## Sequence 628

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCTAGGGCCTTGGCCTG  
AGCAGATGTGTGGCCCTCTTGAATGAACTGCTACATGACATGCTGGTGGTGTATTTGGT  
CATACCTTTTACCATGTTTCAGGCTGTTTGTATTTGAGAATATTTTCTTTAAGTTAAT  
ATGAGACTTTTAATTTATAATATGCTATGTTTCATAGACTGACTGATGATAAACATAGA

Table 2

CTGATAATCATTTTGCAGATAAACGCAGTCAACAATTGNAATTTAGTTTTTATAAAAGT  
TATTATTTAGTCAGTAAATTCAGGCTTGGACAAAAATAGTTCTCACTATGTGTGTGTGC  
CCCTCAGGGTGTAACATACTTTNGGACTCAGTCTTTTTATTGGTTTGTGTTTGTAAAGTA  
NGATGAAAAGCTCAANTAGAGCAGGCCCCCTCAGCAAAAAGTTGTGGATGTAAAAGAAAAAT  
TCTTGGGCC

Sequence 629

ACGTACCATAGTGGGAACTGCTGGGCCCCCTAATGACNAGAGAGATGGATGAATGGACCCC  
ACTCCCATTTCTCTTCTCTCTCCCTTCTNTTCTCTCTCTCTCCCTTCCCCCAATG  
GCCAAGGACAACACTAAAATCAGTATCACAAGTCTGCTGTGGCACATGGCCATGGAATGT  
GACCGTCAGAGGCAGCTCAGAGAGGACACAACCTGGAAGAACAGGTGGTGTGGAATTTTAG  
AACCCTGCTTAAAGCATTCTGCTCAAAGTCCCAGAATGGNTGCTCTGATGGGAGCTTTT  
TGAGANATGATCTCTCCCTGCAAAGAGAATAANAAATGGGTGAGGATGATAGTATCCTGG  
ANAAGCTNTAACTTTGACAAGCTTTAAGGGGTCTTAAAGCAACCAAGTCTNCTTTGACA  
GAGAGGTCAAGCTATTTNACATCTGGTTTGCCAAAAAACTGTGCCTGTGTTTTGCTTTA  
AGACACAAGGGAACCCGCGCTCTAGACTAGNGGGATCCCCCGG

Sequence 630

AGGTACCAGGAAGCCAGCTGTGCTGTAGTTCCTGCTCTTAGATTTCTGTGGGATTCCTC  
ANAGTATTTTTACAACATCGCCTCATCTTGGGTTTGCCTGATCTGGGCTGTGTCCCCTCT  
ACCATATAAGCTGTAACGAACATACTACAGTAGGCAGATCTCTCTGCTGCTTAAATAAT  
AAAACAATGGAGGCGACAAAAAAAAAAAAA

Sequence 631

TAATACGACTACTATAGGGCGAATNGGAGCTCCCCGCGGTGGCGGCCGGGGGCCATTGAG  
ACTGCCATGGAAGACTTGAAAGGTCACGTAGCTGAGACTTCTGGAGAGACCATTCAGGC  
TTCTGGCTCTTGACAAAGATAGACCACTGGAACAATGAGAAGGAGAGAATTCTACTGGTC  
ACAGACAAGACTCTCTTGATCTGCAAATACGACTTCATCATGCTGAGTTGTGTGCAGCTG  
CAGCGGATTCCTCTGAGCGCTGTCTATCGCATCTGCCTGGGCAAGTTCACCTTCCCTGGG  
ATGTCCCTGGACAAGAGACAAGGAGAAGGCCTTAGGATCTACTGGGGGAGTCCGGAGGAG  
CAGTCTCTTCTGTCCCCTGGAACCCATGGTCCACTGAAAGTTCCTTATGCTACTTTCAC  
TGAGCATCCTATGAAAATACACCAGTGAGAAATCCCT

Sequence 632

TACTATAGGGCGAATGGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTNCAGGAGACA  
GGTCAGCAGCTGCGGTGAGCANAGGCACACACGCCAGCCCCTGGAGATGGGTGGCTTGTG  
CTGAGCCAAAGCTGGGCTGGTTTATAACAGCACCTATGCCTTTTCCATTTGAATTTTA  
CAGCTACCACTTCTCCACGAGATGACTTGCTCTCTGGATTGGAGGTGTGTCTGCATTTG  
AGGAACAAGCAACTTTTNTCTGTGGCTACAGGCTGTACCT

Sequence 633

TGGAGCTCCCCGCGGTGGCGGCCGAGGTACACACAGTTAACCACAAAACAGGCCTCTCTG  
AAAAAGCCATTGCCATGGACTGCCAGACAGACAATGACAAGACACAAATACCTTCTGGTG  
TGTGAGCCACGGGACATGTGAGCTTCCCGCTGATGCTCCTTATATTAAGATCACTTT  
CACAAGATGAGCGACTCAATATCTTTTATCAAACCAATGATCACCTGCAAGCTATGGTAT  
ATTTTGCAGCTGTGTAGAGCTATGTGGCATGAGAATGTGGGACTTATAAATTGCTGATC  
CAATAAATAGACATTATGGGCAACAGTGCTTATCAGCTAGTGTGTACCTGCCCC

Sequence 634

AGGTACAATTGATATAACAGCTTTGTTGCCACCCAGGCTTTTCTGTGATGATGCCATGG  
GCCACATTCTGATCAAACCTGCACACCCAGAAGGTTAAGTGTTGGCTCCAAGCGAGAAAAA  
TTATTAAGTTTGGCACTTGAAACCCCTGCTGTCCAAAAATTCTGAAAAATCATCCTGAAGT  
TCAAACCTTGTGTAGAACTTCTCCAAGTAGATAGCCACTGGAAAATGCCTTTGCAAATGAC  
TTGGGACTCACGGTCCGGGACACCTTCAACTCCTTGTGAGCCACTGGCACAGGATCTCC  
GACATGGTTTCAGCCGGTGCCTCAGACCGCAGGCGGGGGCTTAGAACTCGCCAGGAACCA

Table 2

AGCCTGCCAGCCCGCGTCCTCCTGTAGCCAAGGGCAACCCTTTGCTCCCGCGTACCTGCC  
CGGCGGCCCGGT

Sequence 635

NCGAGGTACAAGGGGTTTTCTCTCTGTCTCTTCCATCACGGGATGGTGTCTAGGCACAT  
GGTAAGGGCCATCTTGTCTTGCAGTTGTCAGTGGTTGGTTGAGGGCTCTTATATTGTTT  
AATGTCAAGCCAGGTCTTCTGTGGTTATTGAAAATTAAGTGTCTTTGCAGGTCATTCTC  
ACACCCCTGTTGATGATCTTCACTGTTGCTTCGAGCCATAAGCTTACCTTTCACTGTGAA  
CTCTGGCCCCAACCCAGACCTACTTCTGTCCACTAATCCTACAGCTTCCCTTGGTACCT  
GCCCCG

Sequence 636

AGGTACTCTGCTATAACATGAGATCTGTCTCTCCAGGCTCTGGCTTCCCTCAAGGACAGCT  
GCCACCAGGTCCTATCCATCTTGAAGTCCCCCGCGTACCTGCCCCG

Sequence 637

TTGGAGCTCCCCGCGGTGGCCGAGCGGCCCGCCGGGCAGGTACCTACGATCCTCTGATTT  
GGGGATGGGGTTGGCGCAGCGTTGGCTGTTATACTTGGCCACATATTCACATTGCTTGAA  
GGGGGCAGTCTTGTCTCCAGAACGTGTCTGATCAGAAAGGCGTAGCCCGTTGAGTCGCCT  
CTGCTTGCACAGTTTGGGGCTATATGAGCACAAGGGCTTATTGTCAACCTCAGAGAAGTG  
TATATGTTTCCCTTCATACATCACGTGACTCTATTCTTGTGAACATCAGCTGATTTTAA  
ATCTTCTGCACCATAGCAATGTTAAGAGAACCCCCAAGGATACCGCAATTTGGAATGCCG  
CAAAATCAGGATGAAGCAGATTGTCTTTCAGCTGCTTTTTTTT

Sequence 638

CGAGGTACCAGAGGGGATGTAGCCTGATGCCCTTATCAACAAAGTCAGGGATGGTGGCAC  
ACAAGGTTTGACTACTGCATACACGGTCACAGTGCTACTTCCAGATGGCCTGAATTCCCC  
TGCTCTCTCTGGTGGGGAGAAGGGCTGGCAGAGCCATTAGCATGAGCTTCAGCCAATCCT  
GGCCACTTTGATGCTCCTGGTGTGACCCAGGGTCCTGGAGGATGGGCTGAGGTGGGGGG  
GTAGAGATGTTCANGGCANCAGCAGCTCCTTTCCATCCACACTGGAACATTTTCAGTATT  
TCACCCCAATTCATCTATTCCCTTGTGCGCTGACTGAACATCAGCCCTGCTCCAGGTCTN  
AGTTTCCCTTTGTAAAGGGAAAGCTCTGGATTGAGGGGTGGTGAGAGGTCATCATGGTC  
TTGAGATTTCAGGCCTGTAGGCANGGGGTGAGAGGTTNACTATGANTGCANAATACCAA  
TGCTGGGTANAAGCAAANGAAAA

Sequence 639

GGAGCTCCCCGCGGTGGCGGGCCCGAGGTACCTTTCTTTCCAGGCCATGGCAAAAAATCC  
AATTATGTCCGTCTTGAGTCTGTGGTCTTGCTTCTATGTAGTATTTCTTTGTGAGCTG  
AAGATTAATGCATGGATTCACCTCCTTCAGCACATTTCAATTTGAAGAAAAGAT  
TCCAGGCACTGAATGTAAAATTGAACATGACATTTTGACATTCCTTCTCTGAGAGCTGG  
GTTGGTCTTAGTTGCTGTGAGGCTCTAGACACCGACCATAACAGGGCGTGGGGCTGCTCCT  
GGACATGAACATCCTCCGAAGTTCTCCCATCCACTTTACCCCTCTTGGGCTCACCTNT  
GAATGTCCCCGCGTACCTGCCCCG

Sequence 640

AGGTACACACTAGCTGATAAGACACTGTTGCCCATATGTCTATTTATTGGATCAGCAAT  
TTATAAGTCCCACATTCTCATGCCACATAGCTCTACACAGCTGCAAAAATATACCATAGC  
TTGCAGGTGATCATTGGTTTGATAAAAGATATTGAGTCGCTCATCTTGTGAAAGTGATCT  
TTGATATAAGAGGAGCATCAGCGGGGAAGCTCACATGTCCCGTGGCTCACACACCAGAAG  
GTATTTGTGCTTGTGCTATTGTCTGTCTGGCAGTCCATGGCAATGGCTTTTTCAGAGAGGC  
CTGTTTTGTGGTTAACTGTGTGTACCTGCCCCG

Sequence 641

GGCGAATTGGAGCTCCCCGCGGTGGCGGGCCGAGGTACTTCCGTGAGATATAAGGCTGATG  
ATAAGGATTGGGGTAAAGAGTTGATTCGGTCACACTTGACTGCCTTGAAATCTGTCTTGG  
CATCGGGTCCTCTTCTCCATCGATAGGTGGTCAGTCTCAGAGGGTTGGTCATCTCCCTC



Table 2

TTGCTTCAGAGACACAGCCTGGAATCCTTCAAACTCCCAATTGTTGACATTTCTTCAGC  
CTGACTAGGCTGGTCTCAAGGCTCTTCTTTCTTTCTGCACAAAGGGGGCTAGACCAC  
AGATAGTGGCCAGGAGAGGTGTGACTGGCTCATATAAAGCCAGGCAAGACAGTGCCCTGT  
GCTGTGACCCCACTCAGTCTGAATCTCACTTCACCAAGTACCTGCCCCG

Sequence 642

TNATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTCTCATAACTTTGTTCAATCAGCC  
ACTTGAAATAAGCCACGTGGGTATGTGCCACGCAAAATTTAGTAATGGGTTTTGGGAG  
TGTTTAGATAGCAACAACCTCATANACTGAACCTTTTGGTTGTTTTCTTTCTCTCCAAC  
TCANAGGTTAAAAA

Sequence 643

ATTGGAGCTCCACCCGCGGTGGCGGCCGCGCCGGGCAGGTACTTATTGTATTTCTCACA  
TTCTTTCAGAAAAGTTATTAATAATGGGCTTTACAGTTGCGTTGCTTTTTTTAAAGAGAGA  
AGATTGAAATTTATTTTGAGCTATACACTTGGTTTTGGATTATTCATGTGTATAAAGTT  
ATTTGAGCTGCTCCACTTCTCTGACCTAAGGCTGTGGCTAAAATGGGTTTGGAGAAAAA  
TTCTTGCTGTCTT

Sequence 644

AGGTACTAGTAAGTTCTGGGTAGGGGTGGATGAGTCCTAGGGGTGGGGGGCCCCAGGCA  
CACAGGAACCATAGTTAACCACTCTTCACCTACAGAAGACTCCTCAGGTCAAAGCTTCAC  
TGTACCTGCCCCG

Sequence 645

GAGCTCCCCGCGGTGGCGGNCGCCCGGGCAGGTACGCGGGGACGTTAAGAACTGGACTTA  
CAAGATGGATAGGACCTGGTGGCAGCTGTCTTGAGGAAGCCAGAGCCTGGAGAGACAGA  
TCTCATGTTATAGCAGAGTACCTCGGCCGCTCTAG

Sequence 646

GAGCTCCCCGCGGTGGCGGCCGAGGTACTGCAATGAAGAAGAGGAGAAAGGTTACTTCAA  
ATCTTGAGAAGATCCATCTAGGCTATCATAAAGATTCTTCANAAGGAAATGTTGCAGTGG  
AGTGTGACCAAGTGACCTATACTCATTCTGCAGGAAGACCAACTCCTGAAGCTCTTCACT  
GTTACCAGGAACTTCTCCCTCTCCAGATCAGAGAAAGCTTTTAAGTTCTTTGCAGTATA  
ATAAGAATTTGCTAAAATATTTAAATGATGATAGGCAGAAAGCAACCATCTTTTGTGATT  
TACTTATCATAGTGAAGGAAAAGAAATTTAGTGCACATAAAGTAGTCGTTGCTGTCGGCA  
GTAAGTTATTTTCATGCGTGTGTTGAGCAAAAATCCAAGCACTGATGTTGTCACCCTGGAT  
CACGTAACACATTAGTTTTTCAGCATTTGCTTGAATTTCTTTACACATCAGAATTTTTT  
GTGTACCT

Sequence 647

CTNATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTACGCCAGATGCTGTTTACACATAG  
AGTTTTGAGCTGTTTCTCAAGGAGGGGCATTGGTGGCATTGTTGGGCANAATGATTCTTTGA  
TGGGCAGAAAAGTCCCACCCTTCGCAGAATGTCTATCANTAACTGCAATCATTCTCGCC  
AATCTTTAGGGTGNATGGGAAGAGTAATGCCCAAATGAGANCCCTCCCANATGTTTCATAG  
CAACGGATATGAAGTCATACAGNCGGGNGTGGTTTTTATTCATCCATTCTCTCTCTGG  
GGACCTTAGACAAGTGATAATGCTCTATGCTTCAGTTTCCCCCTTGTAATGTTGGTA  
ATTCCCGCTACCTGCCCCG

Sequence 648

CCGGGCAGGTACCCAGCATAAAGCCCTGCTCTCAGCAGACACTGATATATGTTTATTGAA  
TGTGTGAATGAATCTAGCTTCATCACATTGATGCCATATGAGAAAATCATTTTAGGGCA  
ATACAGAGTTTATAAATGAATTAATTTGAAATCAAATTTCCAAAGATTTATTTTTTA  
AAAAATGTCAAATTCCTGTAAATCTTACCCTTGAAAGTGCCCTTGAAATGCACTTTCCC  
CCAGGTGTACCT

Sequence 649

CGCCCGGGCAGGTACGCGGGGATGGTAGGGACTCGGTTGCCGCTTCTCTCTTCTACTGTC

Table 2

CCAGCTGTCTCTGTTTTTATGGCAACTTTCTGTGGCTTTTTCAAGAGTGGAGATTTGGCT  
GGAGCAGGATTAGGAAGCCTNCTGCTACACGCTTTCCCTGAGAAAAACCTCCTCTCTGGA  
AGGGGCCCTGAGGTGAAAATGATTCAAAAGGCAGCTGAGGAGTTCTGGAAAGAGCCCCAAA  
GACCAGGCTCTGAGGCCTCCCTGGGCCACTTACTAACTAAATGGGAGANGATTACTTGAG  
AAAAAGCCTACANCAGTGCCCANCATGATACCCCGTTGTGAATNACCATTTGGAGGTAGT  
CCGTCCCCACCTGGAGTGGATCAAAGACAACAGAGGCCAACGGGGAAAAAGTTTGAGCTT  
TGCCANGCTGATATTGGCTGCTGAATAAGGGTGATTTTCTCTTGTAATAATGGCTTGAACC  
CCAAAGCTATAGCACAAAGCAAGCAGGGTCATCANAAGCCACTCCTTCTTCTTGAAACCT  
GCAGGGGAAAGGGAACCCC

Sequence 650

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACACTAGCTGATAAGACACTGTTGCCCA  
TAATGTCTATTTATTGGATCAGCAATTTATAAGTCCACATTCTCATGCCACATAGCTCT  
ACACAGCTGCAAAAATATACCATAGCTTGCAGGTGATCATTGGTTTGATAAAAGATATTG  
AGTCGCTCATCTTGTGAAAGTGATCTTTGATATAAGAGGAGCATCAGCGGGGAAGCTCAC  
ATGTCCCGTGGCTCACACACCAGAAGGTATTTGTGTCTTGTATTGTCTGTCTGGCAGTC  
CATGGCAATGGCTTTTTTCAAGAGAGGCCTGTTTTGTGGTTAACTGTGTGTACCTGCCCC

Sequence 651

GGAGCTCCCCGCGGTGGCGGCCGGGGGCCATTGAGACTGCCATGGAAGACTTGAAGGGTC  
ACGTAGCTGAGACTTCTGGAGAGACCATTCAAGGCTTCTGGCTCTTGACAAAAACGGATC  
CATTAAGCCAGCACCAAGGAGAATCATTTGACACTTTATGGAATTTCAAAAAGTATGATA  
TGATGGCAATAAAGTGGCTCTTCAGCCAAAAAAAAAAAAAAAAAAAA

Sequence 652

TTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTCTCTTGTCTCTGCCTTCCAGGCAA  
CAAGGGATTTTGGGGTAGTAGTAAGCTCTACAAATATCTTTGACCAGTAAAAACCTTTGC  
AACCTNAAAATTANTGGTTTTGGCTTCTTTGGGAAAAACAGTGGAACCTGCCAAATN  
CTGAACTTAACNAGTAAAGGGTTTGTCTTTTNAAAATGGTGGGCCTGAAGTTAAGGGTT  
CAATTTTTAANCCTAAAAAATGAACCACTTTCTTGGTTGGCATTTTGGGGTGAACCTGT  
GCCCCATTTGGTTGAATCTTCTCTTTAATAAACTTGTCTTAAATTTTCTNTTCTNTG  
ANCACCTGGGAAGGTACATTTGGGAAAAGTTAAAAAGCCAGGAACCCGCGTACCTTGCC  
CCGGCCGGCGNTCTANAACCTAAGTGA

Sequence 653

GGCAGGTGTGGCTAAAGACTGGACTGTAGAACAGGGAGAGTATCTGGGGTTGTCCAGTGG  
GCTCAATATAGTCACAGTCAGGGAATGTTCTCTGGCCGGAGGCAGGAGAGACATGGCANA  
AGACTAGAGGCTGAGACTGCCCAACCCACCATTGCTGGAGGGGGCCACTTGGAAGCATG  
AGAAGGAAGGGGGACCCAGTCCTACAGCTGCAAGGAATAATTGAGCCAACTGTGCATAAG  
CTTGAAGGCCTCCAGGGTGAACCCAGCACCTCAGACACTGGCCCCATGAGACTGAGCAGA  
GGACCCAGCTGGGCCTGGCTGAACCTCAGGCATCTGACTTANAGAATTGTGAGATAATCAG  
TGGTATTTAACTGCCAAGCCTGTGGTGATTTGTTGTCTGGAAGCAATANAAAACCTAAT  
CAACAGGGCTGGACGCGCCTGTAATCCTAGCACTTTGGGAGGTGGGCGGATCACCTTATG  
TCAGGAGTTCAAGATCAGCCTGGCCAACATGGTGAAACCTANTCTNTACTAAAAATNCAA  
AATTTCAAAATCAAAAATCACCCGGCGTGGTGGCAGGTGCCTACCCGCGTACCTNNGNCG  
CCNNGCAGGTCTTGGGCCCCAAA

Sequence 654

CCGGGCAGGTACAGGGTTTGTGAGGCAGTGTGTGGGGGACCCGGCTGGATTTGTATAAAG  
TCCCAAGAAGTGCTCCTTTTCCAGAAGGGCTGCTACAATCCAATCTCAGGAACGTGGACT  
GTTATCTGAGTTCTGCAGTTTCACTTTGTTCCAGGGGCCACCCCACTCGCCTCCAAATT  
CTTTGTATAATTCCAGAGGCCATTCTCTGGGCTTATCCTGCTTCTCCACGCTGGTGAA  
TAACTCCACCTCCTGCCCTTTGTCTCTCTATTTATGGCCCTTCTGAGTTCTGGAGAAGA  
CTTCACTGGGACTTACGTCACTGAGCTTAACATCTTCTCATTATGAGGAATGAGAGAG

Table 2

AAGGCAACAGGACAATGCCCCCATGGCTTCCACTGTAAGAAAGTTGAANACTGTGAATCT  
TAAAGTTATTAGAGCAGTTGGAAGCCACACGGTTTAAACAGTTCTACTTGTGTACCT

Sequence 655

GATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGGGAGAATCACCTGAGCTTGGGAAGTTGA  
GGTGCAGTGAGCTGAGATCGCACTGCTGCATTCCAGCCAGGGTGATGGGAGTGAGACCGT  
GTCTTAAACAAATAATAATAATTTGGGGGTGATGTAGACAGAAATAAGGACAGAGGTATG  
AAAAGGAATAATTATTTAGCATTTTACTAGCCAGAGATTTGGGCAGTCCAAAAAGCAGC  
TTTTCTAATCTCCCTCTCCTTTCCCAAAAACTTTAATCAGATCCTTTAGTATCCTATCA  
TCTTTGGGTTATTTACATACTACTTTTGGAGGGGGGATTGTGGAAAGCTATCGAGATCT  
TTGAAAGCATTGATGATTAGCAAGATGATTATTCCTGTAAGAAGCCTTAANAGGAGAAAT  
GCAAGTGTAAGTTAACACTGGCTTCTTAAATTGGTCAGTGAAAGTTGGAT

Sequence 656

CGCGGTGGCGGCCGCGGCCANGTACACACTAAGTANNACACTGTGGCCNATAANG  
NCTATTTATTGGATCAGCAATTANATAAGTCCCACATTNTNATGCCGTATAGCTCTACAC  
AGCTGCAAAAATNTACCATANCTNGCAGGTGATCATTGGTTNGATAAAAGATATTGAGTC  
NCTCATCTTGTGAAAGTGATCTTTGATATAAGAGGAGCATCACCGGGGAAGCTCACATGT  
CCCGTGGCTCACACACCAAAAGGNATTTGNGTCTTGTCTTGTCTGTCTGGCANNCCATG  
GCAATGGCTTTNTCANAGAGGCCTGTTTTGTGGTTAACTGTGTGTACCTCGGC

Sequence 657

GAACCATGGAGCTCAGCGTNCTNCTTNTCTTGCCTCCTCACAGGCCTATTGCTACTCC  
TGGTTCAGCGTGACCCTAACTCCCATGGCACCTCCACCAGGGCCCCGNCCTCTGCCCT  
TTNGGGGAACCTTCTGCANATGGACAGAAAAGGCCTACTCAAATCCTTTCTGAGGGAAAGT  
GGATCTGATTGCCGTCGATCAATAACCTTTGACCAAGGGACTCCAATCAATTCAGCAT  
GTTTTGCCTAATGCCTTTTGTGTAATACTGTTGCGGGACAATCAAAGACTGGAGAGAT  
CAAAAAAAAAAAAAA

Sequence 658

AGGTACCCCTGACTTGGTGTTATCTGACATTGGCTAATCTCCAACCTATACTGAATACC  
CGAGCATTTCTAAGTGCCCTGGCCTTAGCTGGGGCAGGCTTAGCAACAAGGGTAANACAA  
GAGAAGACGAATAGGCTGGATGCAGTGGCTCATGCCTGTAATTCCACCCTTTGAGAGGC  
CGAGGCTATCAGATTACTTGAGTCCAGGAATCAAAGACCAGCCTGGGGCAGGGCATGGTG  
GTGTGTGCCTATAATCCTAGTGCTTTGGGTGGCTGAGGCAGCTGGATCACCTGAGGTGAG  
GAGTTCNAGACCAGCCTGGACAACATGGCAAAACCTATATCTACTAAATATACAAAT  
AGCCGGGTGTGGTGGTGCAGCCTGTANTCCAGCTACTTGGGAGGCTGAGACAGGANAAT  
TGCTTGAAC

Sequence 659

GCTCCACCGCGGTGGCGGCACGAGGTACTTGGCCCTACCCTTTGGCCTCTTTCACCCCTG  
ATGTGGAATCTTCCTTTCTCATATGCGTGACTTTTTCATATCATCTGCTCATCTTGGCGT  
CTCCTTCATCAGAATTCACGGTTATTTGGGAGGTCTGCTCAAGACTAANTTCAGTGACA  
TTCCCCATTGCCCCCTCCAGCCCTTTCACACACACACAGACATACACACATTCCCTCTGT  
CTCTTTAGGGTTTCAGGTAATCAAATAACTCACTGTCTATGGTGTTCTGCTCTTTCACC  
GAGTCTTTGGCTGCTGAATGTGTCTCTCTCCTCTTACGCTGTTCTACTTTGGCTGGCG  
AATAAGATGAACAGAGCCACTCCCTGGAAAGGACTTCANATTTGGCCTCCGCTGAAACAA  
TGAAGATGAGGGAGAGCAGGAAAGCCAGGCTGGGCGTANAATGTGTGTNACAATGANGCT  
GGAATGAAAAGGGAGATGGGAATTTGCAGTTTGCTCACACCCTCATTCCAAATGTTATCC  
CCGCGTACCTTGCCCG

Sequence 660

CTCCCCGCGGTGGCGGCCGAGGTACTTTTTATTATTTCTTTAGTTTCACCAGTCCTATA  
CTGGAAGTCTCTTCTAAGCATCANGATAGAGGTCATCTAGTTCAAGATGCTTAAATCT  
CTCTTCAGTATATCTTTTCAAGAACAAGAGGTGTGACCAATACACAATAGGCAATCAATA

Table 2

TTCAATGAAAATGTTTGCTCAGAATGAGTAAAGACCTCCAGTGATAAGGAATGCATTCTT  
TTCCAAGGGAACCCATTCTATTTTTGAAGAGTTCACAACATCAAAAAAAGTTCTTATG  
CTGAGCATGAATCTATCTCCTTTTGACTTGCCCATGAACTCAATTCTGTGCTTCCAANG  
GAGATACAATTAAGCTCAATACTTTACCAAACGACAGCAACTCACAAACCTGAGGGGC  
GGGTTGAGACTACTCTTCCTCACAGTCCAATCTTCAGCCCTCTCCATTCTCAGTGACAA  
GGGTTTCCTTTCTCC

Sequence 661

ATGCAAAAATCGTGTGAAAATCAACGTGGAACAGGAAATGAGGTGCGGGTGCAACTGGT  
TACAAAGGGTCAGAAGTTGTCTGGTGCCTGACAAGGACACACATCTCATTACATAACATAT  
GGTGGTAATTTAAAAATGAAATGATGTTATTTTTCTTCGAATTCATATGTATTTTTT  
TCAGGTGGCCACTTAGTTGTAAGGACATAAATACTCATTAAAGTTGTTGGACCTATTTAA  
TAAATGGACATGTTAGGTATTTACCTGCCCCG

Sequence 662

AGGTACCAATGCGCGCGCGCACACACACGAACATGCGCGCATACACAGACGCTCGTGC  
ACACACGCNAACAGGCACATACGCGAACAAACACGGGCGCGCACACACGAACACGGGC  
ATATGCATACTTGGGCGCACAGAAGATCTGGCTGGCTCAGTCTGGGTAAAGAATCCCCC  
TTTGGCCTTGGCATCGGGGCCACCGGGTATCGTGTGTATTGGGAGTAGTTGCCAGAGAT  
GGGGGAATTGTGTTCACTCAACTGCTAACCAGCAAGTAACACCCAATTAGTAAATGAT  
GGAGGATTTTCTTTCTTTCCAAAGTTTGGACTTTTCTACCACGCTGTGTACCTGCCCG  
G

Sequence 663

GGAGCTCCCCGCGGTGGCGGGCCCGAGGTACAGAGGGTGCCAGGCACTGTGGTGCACACCT  
GTAGTCCCAGCTACTTGGGAGGCTTGAGGCGGGCGGATGCTTGAGGCCAGGAGTTTGAGG  
CTGCAGTGTGCTGTGATTGCTCCTGTGAGTAGCCACTGCACCTCAGCCCTGGCAACATAG  
CAAGACCCTGACTCTAAATATAAAAAAAGTATAGCGGGCACAAATGGGGCGAAGCCAGG  
GTGGGATGCAGAGTCTAAAGGGAGATGAAGCTGGAGAGGCAGGCAGTGGTCAACATGTGG  
CCATGGAAAATAGTTTAGGTTTGATTCTGATGGCACTGGGCTGCCATTAGAGGGTTTGAA  
GCAGGTCACTGATGTGATACAATAAGTCTTCAACAGATCATTNTGGAGACAGTGCTAA  
CATGGACTGGTGGGCAAAAGAGTGAGAAGCCNAAGCCTTAATCCAGAAGGAAATGAAATA  
TGTCTGAATTCAAGGCAGGGCAGTAAGGCTTGGANAGCANGGGCATGGTTAAACAGGACAG  
CAAAGTACCTGCCCGGGCGGC

Sequence 664

GATTGGAGCTCCCCGCGGTGGCGGGCCCGAGGTACATTTTTATATGTTTTATTCTTTCAGG  
CTTTGTGAGAGGGGTTATTTATTTTCAATTTGCAAAGCAGTGAATTGAGATCCAGGGATTT  
GTCCAAGGTCACATGGCTTGTTCTGTGCCATTCTAGTCCCTGCTCTTTCTTCCCATCAT  
ACCACACATGTCATTTCTGCCTCTAGCTCACAGCCACAGTCTAGTCCTTTGATAAGAAGC  
AATTCCAGAAATGAAGATTCAAATCCCAGCTATTCTGTTCTACTCAAAATATGGCCCATG  
GACCAGCAGCACTGAGATCACCAGGGAGCTACTTAGAAACCTGCAGTTTCATACTTGGGA  
GGCTGAGGTGGGAGGATCGCTTGAACCCAGTTTCAGGCTGCAGTGAGTGATGATTGTAAT  
CCTGCACTCCAGCCTGGGTGACAGAGCAAGATCTTGCTTTAAAAAAAAAAAAAAAAA

Sequence 665

AGGTACCACCACCTATCCACACTCTCACACAATCACCCCTTTTGAAGTAAAGCCTATATT  
TTAAAAATAACCATTACAGATTGTGAGTGCAGTCTAGGATCACATAGCAGAACTAAAAGC  
TAACTGGCCCAACCACAAAGTAAATGTGAGACAGAGGGCTCGGGGTAGCCATACTCTAGC  
CAAGTAGTACCTGCCCCG

Sequence 666

GATTGGAGCTCCCCGCGGTGGCGGGCCCGAGGTACACTTAGCAATGAACGAGAAAAACACTTG  
ATAGATGCTAGTGTCTCCAGAGCAGCATTCTCTGTGTCCCTGAATTAAGATGAAACA  
ATTTGATAGGTGCGATTATTTAGTTGCGTTGCTTTAAAGAAAATAGAAAACCTTTTTCTCT

Table 2

CTATATATAAGGGATATATATTCTAAATATAGGGATATATTTTCTGAAAACTTTCCCA  
AATACCAACTTTCTGATAAGGCAACATCTGTGAACCTCACTGAAGATCAGAGGCAAATCT  
CAGTTAAAAGGCAAATCA

Sequence 667

AGGTACCTGGTTTCCTGGCCTGGGCCATGCCATCCACCAGCCACTCTCGCAGCAGAAAAGA  
TCTAGCCTCCTTAAGACAGGTCTTATCAGCTACTTTTCTTTGGCAGGCGAAATCTTGCAA  
ATCCTACAAAAGCTCACTAAAGCAGCTCTCACATGTAAACACAATCATACTCGACTCTT  
TTGCTGGAGATTTACAACGTGCTCATTGTCTCCGACGAGCAGCATATTCTATTTGCGTGT  
CTAGGAGGGAATGGTACCTGCCCG

Sequence 668

NATTGGAGTCCCCGCGGTGGCGGCCGAGGTACAGAACTTAAACACCACTATTTGTTGAG  
ATGAAAAAAGCATATATAGGAAGCCTTCAAAATGAAATGGTCAAGGGTGAGTTTACACA  
GATAGATAGATTTAGGTCTCTTCTTTTGCTTTGTGAAAGCATCTAGTGTTTAGGTGTCA  
GAGAGGGAGATATCCTTACAAAGCAGAGATTATCATTACAGGTTTACATTTCTTACAAAG  
AGTTTCAAAATAAACAGGTAAATGCCAAAACATATATTTTGAGACGGATTAATTCAT  
AGTTGGTCTATTCAACTTAACTTGTTCCTAATGAGATTAAATTCATGCACAAATAACCA  
AACCA

Sequence 669

CTNATTGGAGCTCCACCGCGGTGGCCGGGCAGGTACGCGGGGGAACCTCGGAGGATGTTT  
ATGTCCAGGAGCAGCCCCACGCCCTGTATGGTGGTGTCTAGAGCCTCACGGCACTAAG  
ACCAACCCAGCTCTCAGAAGAAGGAATGTCAAAATGTCTGTTCAATTTTACATTCAGTG  
CCTGGAATCTTTTCTTACAAATTGAAATGAAATGTGCTGAAGGAGGTGAATCCATGCATT  
AATCTTCAGCTCACAAAGGAAATACTACATAAGAAGCAAGACCACAGACTCAAGACGGAC  
ATAATTGGATTTTTTTGCCATGGCCTGGAAAGAAAGGTACCTCGGCCGCTCTAGAACTA  
GTGGA

Sequence 670

AGGTGTACCACCCAGACCCGGCCAACCGCCCATCCGTGACGGCCAGCCCATCGTCGCCC  
ATACCCTCCTCAAAGGGGCTTGCCCGTACAGGGCGTCATGGTGATTGCCAACGGCACAG  
ACCCAGAGCGGGTGTTGTACACGCCGGATGCGCCCGACGGTTTGAGCTTCCGCGAACTGG  
CAGACCAAAACGCACTCAACACCCTGCTGGATAAAAACGAATGGAAGCTCTACACCGCGA  
ACCGGAAGTCGCCAGTCAATAAGGATGACGTGCGCAAGGCAAGGGACGCGCTCAAACAGC  
AAGCCAGCGCTCTGGGCACCAATCCGG

Sequence 671

GCNNATTGGAGTCCCCGCGGTGGCGGCCGTGATTTGCCTTTTAACTGAGATTTGCCCT  
GATCTTCAGTGAAGTTCACAGATGTTGCCCTATCAGAAAGTTGGTATTTGGGAAAAGTTT  
TCAGAAAATATATCCCCTATATTTAGAATATATATCCCTTATATATAGAGGAAAAAGTT  
TTCTATTTTCTTTAAAGCAACGCACTAAATAATGCGACCTATCAAATTGTTTCATCTTA  
ATTCAGGGACACAAGAGGAATGCTGCTCTGGAGGACACTAGCATCTATCAAGTGTTTTCT  
CGTTCATTGCTAAGTGACCT

Sequence 672

TGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTAATTAGATCTGCCCATCCGTTA  
CTTGGCAGAGGAATGGGCTGGAAATGGGAAAGGGTCAACCTTTACCTGCTGGACACTCA  
AGGTGAGAAGAAAAAGGAAAGGGGCCAAGAACTAACTGTCTGGCTAGACAGTAATCATGG  
ACTCAGGCTTTAGGTATTTGATCTTTTAGAATTCCAATTTCTGAAAAATAAAGGTGTTAT  
ATGTAATTAATAGTTGGAAGTGGGAGGAACCTTCACATTTAAATAGAAAACATAAATAA  
GCCAATGAAAAGAAAACACTCATAATTATCCAATATAATTTTTTATAGTTCATAGATTA  
AAATAT

Sequence 673

AGGTACATTTTACTTGCTTGATCTCTGATTCCCCTCACTGGGTCAACCCGCACCTCTGAGT

Table 2

GCCCTCCTCACCCCTGCATGAGCCTTGACACCAGGCCCTGAGCCTTTCCTCTGTGTGGTTG  
TCCTCACAGTCCTCTGTGTGGGATCCAGAACTAGGCACCAAGCTCCCCACGTAGGAGGGT  
GCCCTCCCCATTCCCTCTGCTGAGGCTCGAACCAGCATGTCAGGCTGCTCCCCCATGTGG  
ACACCTGACTCTCTTTGGGCTCTTACTCTACACTGGCTGTACCTGCCCG

Sequence 674

CCGGGCAGGTACTGTGCAATGACTGGTGAATCACAGTCTCTAAAGGAAGCTTTTTGAGAT  
TTTTACACAGATGGCTATGCAAAGCATAAATAAGTGTGAGGAGGAAGGGAAAAGAAAGGA  
GGGAAAAAATAAATGTGTGGGAGGACAGGCAACTGCAACTTTCATTGTTCTTTATTTCT  
TGACCATTTGAACCTAACTACTTAGATAAACCCCTACAACCTTCTCTTCAATTGCCATTACA  
TGTCACATAGCCCTTTTAAAACTCTAAATTTACCTCATTGATTTAGAAATTTTTTTT  
TAACTTTACACCTTGTAAGTGATTTGGGGAATGAGTTCT

Sequence 675

AGGTACATACGAGTTTCATTATGTTGTCCTGGCTGGTTTTGAGCTCCCGGCCCTTAAGCT  
ATTTGCTTGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGCATGTGCCATTGAGCCTGGC  
CAATAATTATTCCTTAAAGATGAAAATAATAGGTATTTTTAAATCATTTTCAGTGGTTC  
CTTAAGAGGGGTGAATCACTCTCCTCCCCTGATAACATTTGGTAGTGTCTGTTGACAATG  
CGGTGTTGGGGTGCTGTGGTGCTGTCAGCACCTGATAGGTGAAGACCAGAGATGAACACC  
CTATCATGTGCAGAGTAGTCCCCCAACCAAGAATTATCCA

Sequence 676

CGGGCAGGTACGCGGGGAGATGTAGTGAATCTCTGCCTGTGTGGACAAAGAGACACATTC  
AGAGGTGAGCCAGAGCGGGTAAAGTGGACTGGGGAGAAGCTTCGGAGGATGTTTCATGTCC  
AGGAGCAGCCCCACGCCCTGTATGGTCGGTGTCTAGAGCCTCACAGCAACTAAGACCAAC  
CCAGCTCTCAGAAGAAGGAATGTCAAATGTCAATGTTCAATTTACATTTCAGTGCCTGGA  
ATCTTTTCTTCACAATTGAAATGAAATGTGCTGAAGGAGGTGAATCCATGCATTAATCTT  
CAGCTCACAAGGAAATACTACATAAGAAGCAAGACCACAGAC

Sequence 677

CCGGGCAGGTACAGATGGGGGGGTTCTCACTATGTTGCCCAGGATGGTCTGGAACCCCCA  
TGCTCAAGTGATCCTCCCACCTTGGCCTCCCAAAATGCTGGGATTACAGGTGTGAGCTAC  
CTCACCTGGCCCAGATGACAATTCTTGAAACACACCTTACAATTTCTGCAGTAGTTTCAA  
ATACTAATCGCATTCTATCTTCACAACCTTCTGAAATAAGGAGAAAAGTTATCTCCAT  
TATTTCCACTATCCGACATCACTCACCCAGGCAATTCACATACTTGGAACCTAAAATCAA  
ATTTCTGACTCTTCTTATGACCCCTACGG

Sequence 678

AGGTACACACAGTTAACCACAAAACAGGCCTCTCTGAAAAAGCCATTGCCATGGACTGCC  
AGACAGACAATGACAAGACACAAATACCTTCTGGTGTGTGAGCCACGGGACATGTGAGCT  
TCCCCGCTGATGCTCCTTATATTTAAAGATCACTTTCACAAGATGAGCGACTCAATATC  
TTTTATCAAACCAATGATCACCTGCAAGCTATGGTATATTTTTGCAGCTGTGTAGAGCTA  
TGTGGCATGAGAATGTGGGACTTATAAATTGCTGATCCAATAAATAGACATTATGGGCAA  
CAGTGTCTTATCAGCTAGTGTGTACCTGCCCGGGCGGCGCTCT

Sequence 679

GGGGCCATTGANACTGCCATGGAAGACTTGAAAGGTCACCGTANCTGAAACTTCTGGAGA  
GACCATTCAGGCTTCTGGCTCTTGACAAAGATAGACCACTGGAACAATGAGAAGGANAG  
AATTCTACTGGTCACAGACAAGACTCTTGTATCTGCAAATACGACTTCATCATGCTGAG  
TTGTGTGCAGCTGCANCGGATTCCNTGAGCGCTGTCTATCGCATCTGCCTGGGCAAGTT  
CACCTTCCCTGGGATGTCCCTGGACAAGAGACNAGGAGAAGGCCCTTANGATCTACTGGGG  
GAGTCCGGAGGAGCAGTCTCTTCTGTCCCGCTGGAACCC

Sequence 680

CCGGGCAGGTACAGCCAGTGTAGAGTAAGAGCCCAAAGAGAGTCAGGTGTCCACATGGGG  
GAGCAGCCTGACATGCTGGTTCGAGCCTCANCAGAGGGAATGGGGAGGGCACCCCTCTAC

Table 2

GTGGGGAGCTTGGTGCCTAGTTCTGGATCCACACAGAGGACTGTGAGGACAACACACA  
TAGGAAAGGCTCAGGGCCTGGTGTCAAGGCTCATGCAGGGTGAGGAGGGCACTCAGAGGT  
GCGGTTGACCCATTGAGGGGAATCANGAGATCAAGCAAGTAAATGTACCT

Sequence 681

CNNNTACCCTGNNNTGCCANANTTGCNNNTGGACNTATCACNTCTNGTNCNGNTCCANG  
NGGACGNCNANGCTCNCNTACTNNTGTTGANTANTAGGAGAGGGTTNATNCGNATCGCTN  
CNGCNNAGTTCCANCGGTATATATTCTNNGTATCNTGAACCATAATAGTAATTTGCCTACT  
AACTATGTAACATTGAACAACTACTGTTTTGTGAGCCTGAAAAGTTGGTACCT

Sequence 682

AGGTACACATTCCCTCTNCTGGAGGTTGTCCCTCAGCATGACGCTGACTGATGTTTCATCA  
AGACTTACTGTACACTGGCTAGTGCTGCCAAGCCATCTAGACTACAACCTATTCTAGAT  
TCACCCTGGAGAGATCTTAGAGGGCATATCTTNTTCACCCAGAGAAGGCATTTATGCCTT  
ATTGAGGCCTCAGTTTACCCAGAGGAAACAGCTCTTNCCTATGACCCTGANAGGTGCTGG  
TGCTACTCAAGGCACCTGTGTTCTGGTGCACCTGGCCCTTTAACTAAAAGATAATGGGGC  
AAAGGANAGGGGGGGGAGCAAGTGTAATACCTCATTGTGGAGCAG

Sequence 683

CCGGGCAGGTACAGCCAGTGTAGAGTAAGAGCCCAAAGAGAGTCAGGTGTCCACATGGGG  
GAGCAGCCTGACATGCTGGTTCGAGCCTCAGCAGAGGGAATGGGGAGGGCACCCTCCTAC  
GTGGGGAGCTTGGTGCCTAGTTCTGGATCCACACAGAGGACTGTGAGGACAACACACA  
GAGGAAAGGCTCAGGGCCTGGTGTCAAGGCTCATGCAGGGTGAGGAGGGCACTCAGAGGT  
GCGGGTGACCCAGTGAGGGGAATCAGAGATCAAGCAAGTAAATGTACCT

Sequence 684

CCGGGCAGGTACACATCTGCTCCTGGGCAGACCTTACAAGTATCTCAAACCTCATATCTCC  
ATGAGAGGTAGATAAGCTACGTAAACAAGGGAAGCCAAGATAACAGGGAAGACAGGAGAC  
TATCTGCCTATCTAAAAACACTCAAATCTTTTCTATAAGCACTGCTGATTTAATCCATT  
ACACCACCAGCAGCTGCCAGTTTACAATCTCTGCTACACAAGCCCTCCATTGAGTTTAA  
GACAACCGTCAAAATATCTCTCCAGTTTCTCCATTCACCTGACTGTTACCATAGAGAATA  
CAGGTATTCCTCACTCTGGCCTGCTGTGTGCAGTGTTTTCTCCTATCAG

Sequence 685

AGGTACACACAGTTAACCACAAAACAGGCCTCTCTGAAAAAGCCATTGCCATGGACTGCC  
AGACAGACAATGACAAGACACAAATACCTTCTGGTGTGTGAGCCACGGGACATGTGAGCT  
TCCCGCTGATGCTCCTCTTATATCAAAGATCACTTTCACAAGATGAGCGACTCAATATC  
TTTTATCAAACCAATGATCACCTGCAAGCTATGGTATATTTTTGCAGCTGTGTAGAGCTA  
TGTGGCATGAGAATGTGGGACTTATAAATTGCTGATCCAATAAATAGACATTATGGGCAA  
CAGTGTCTTATCAGCTAGTGTGTACCTGCCCC

Sequence 686

CCGGGCAGGTACCCTAAACCCTGGCAGCCTGGCCTACAAACCGACATGAAGTTTGAAGAG  
AAACTGGTCTTCTGTTTTATCAAATACTCAAATATACGGAAGTAGCAAACATTCACCCC  
CTCTTCATTCCCTTAAACTCGATCTACCAAGTCTAGCTTCCGCACTGCATCATAGAGACA  
TTTTAATAGATTCATTTTTTCTCTCTCCTCAAGAGATATTTCAACACTTGCTACGTGC  
CAGGCTCTGTACCT

Sequence 687

CCGGGCAGGTNCACACAGTTAACCACAAAACAGGCCCTCTGAAAAAGCCATTGCCATGG  
ACTGCCAGACAGACAATGACAAGACACAAATACCTTCTGGTGTGTGAGCCACGGGACATG  
TGGGCTTCCCCGCTGATGCTCCTCTTATATCAAAGATCACTTTCACAAGATGAGCGACTC  
AATATCTTTTATCAAACCAATGATCACCTGCAAGCTATGGTATATTTTTGCAGCTGTGTA  
GAGCTATGTGGCATGAGAATGTGGGACTTATAAATTGCTGGTCCAATAAATAGACATTAT  
GGGCAACAGTGTCTTATCAGCTAG

Sequence 688

Table 2

CTTTCAGGCCATGGCAAAAAAATCCAATTATGTCCGTCTTGAGTCTGTGGTCTTGCTT  
CTTATGTAGNATTTCTTTGTGAGCTGAANATTAATGCATGGATTACCTCCTTCAGCAC  
ATTTCAATTCATTGTGAAGAAAAGATTCCAGGCACTGAATGTAAAATTGAACATGACAT  
TTTGACATTCCTTCTTCTGAGAGCTGGGTTGGTCTTAGTTGCTGTGAGGCTCTAGACACC  
GACCATACAGGGCGTGGGCTGCTCCTGGACATGAACATCCTCCGAAGTTCTCCCCAGTCC  
ACTTTACCCCTNTGGGCTCACCTNTGAATGTCCCCGCGTACCTGCCCC

Sequence 689

AGGTACCTGCCACCACACCTGGCTAATTTTTGTATTTTCAGTAGAGATGGGGTTTCACCA  
TGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCAGGTGATCCGCCCGCTCGGCCTCCTA  
AAGTGCTGGGATTACAGGTGTGAGCCACCACGACCAGCCAGAGGACACTTTCTTAACAAA  
ATATCCCTTTAGGGTAAGATCTTTCCTTAGAAAAGTTATTCATGAATATTTCTGGTTT  
CTAGCTAAAATATAAGCTTATCATATTTATCAAAATATTTCAATTTAACTCTGAAGATAT  
TATCACTTGGAATAAAGTTTGTAAAAATTTGGAAGAAATGCACAAGTTATATTTGAAA  
ACAGTTTTGAAAAGGAGCTATATTTTATTCATATAAATATTAAGAAAATGTTATGAAGTG  
AATAGTTATCACTAACTATACTAGATTACTGTACCTGCCC

Sequence 690

AGGTACCTTTCTTTCCAGGCCACGGCAAAAAAATCCAATTATGTCCGTCTTGAGTCTGT  
GGTCTTGCTTCTTATGTAGTATTTCTTTGTGAGCTGAAGATTAATGCATGGATTACCT  
CCTTCAGCACATTTCAATTTCAATTGTGAAGAAAAGATTCCAGGCACTGAATGTAAAATTG  
AACATGACATTTTGACATTCCTTCTTCTGAGAGCTGGGTTGGTCTTAGTTGCTGTGAGGC  
TCTAGACACCGACCATACAGGGCGTGGGGCTGCTCCTGGACATGAACATCCTCCGAAGTT  
CTCCCCAGTCCACTTTACCCGCTCTGGGCTCACCTCTGAATGTCCCCGCGTACCTGCCCC

Sequence 691

CCGGGCAGGTACTCCACAAGCTTGCCTGCCATGGGCTGTGCGGATGTCCACGCAGCCACA  
GTCTTTCTTCTCTGTGTGGAATCGCCTCAGTAGCAGGCCTCTTTCAGGGACTCTGCTT  
CCCAACTGGAGAAAATTACGATTGATCATTCAACAGAAACGAGAAGAACCTGACTGTT  
TACACAGGCCTGTGGGTGAAATGTGCCCGGTATGACGGGAGCAGTGACTGCCTGATGTAC  
CT

Sequence 692

CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGACATTACAGAGGTGAGCCCAGAGGGGG  
TAAAGTGGACTGGGGAGAACTTCGGAGGATGTTTCATGTCCAGGAGCAGCCCCACGCCCTG  
TATGGTCGGTGTCTAGAGCCTCACAGCAACTAAGACCAACCCAGCTCTCAGAAGAAGGAA  
TGTCAAAATGTCATGTTCAATTTACATTCAGTGCCTGGAATCTTTCTTCACAATTGAA  
ATGAAATGTGCTGAAGGAGGTGAATCCATGCATTAATCTTCAGCTCACAAAGGAAATACT  
ACATAAGAAGCAAGACCACAGACTCAAGACGGACATAATTTGGATTTTTTGCCATGGCC  
TGGGAAAGAAAGGTACCT

Sequence 693

CCGCGGTGGCGGCCGCCCGGGCAGGTACCTGTTATCATCATTCTCAAGAGCAGCATGTG  
GCACAGCAGGAAGCCAGGCAAGCTCCTGCCATTAGCACACAACGGCAAAAGTGATGTCT  
GTGTCAACATTTCTGAAGACCCAGAATGGGCCGTAGATAGGCATGATTTTCTAATGACT  
TTCGCACACAGGCCAAAAAATAGTAATGATACTACTAATATTATAGGTGCTTCCTATGG  
CCAGGGGATGTACCT

Sequence 694

CCGCGGTGGCGGCCGAGGTACTGTGCCGAAAGACTTTACAGGTATATCCGGAGCAATAAG  
CCAGTCACCATCATTTCCGGTCATAAGTCATCCCTCAGATGTCATGGAAATCCGAATGGTC  
AAAGAAAATTTTAAAGCAAGACCTTGGTCAGTATATTACTCTACATTTGTCCCAGTGTAT  
CTTGCAATTAGAAAATCATCCATTTACCCTCACAATGTGTCCAACGAAACCAAGCAACA  
TTTGGGGTTCATCTTAAAAATAGTAGGAGACTGGACAGAACGATTTGAGATTTACTACTG



Table 2

CCTTCATCTAGTCAAGACTCCGAAATTCTGCCCTTNATTCAATTCTAGAAATTATCCCAA  
GCTGGATATTGATGGTCCTTTTGAAGTCCNTTTGAGGGATCACTGAACTATGAGGTCAG  
CCTTTGCGTGGCTGGAGGCATTGGAGTAACTCCATTTGCATCAATACTCAACACCCCTGT  
TGGATGACTGGNAACCATAACAAGCTTNAGAAAGANTNTACTTTNTTTGGGNATGCAGAGA  
TATCCAGNCCTTTCGGTNGGTTTGGCAGAATTTACNTCTGNATGNTNGCATAACAAGNT  
TTGGGCAA

Sequence 695

GTATACGACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTA  
CGCGGGGAGAACTCCAGCATTTTCATCTAGGGGGAGGTGGAAGTGTGGCTTTTAGAGATAA  
AAGGACAGGGTTGTTTTGGGGTGCTCTGAGAAGGGGAAAAGGAGACCAGTGTATAACTTT  
GAGTAGCTAGAACGGGAAGATTTGAGGGGGCTGAATGAATTGATTGAGAGTGATTTAACT  
TAAAGGACTGGGGCATTATCTGTGGGCCCGGTATACTAGCTTCACTTTTGAGGAAAAGT  
GAAGCTGGGAAATGTGAGATCTACTCAGTGGGTCCGGGGAAATGTGAGAGGAGTAAGGAA  
AGTGAAGACACAGATGTTGTTGGAGGCTCCAGGCTAGCATGGTAAAGAGAAAGGGTTTCC  
TGGATTCTGATTACAGAATGGACCTGTGGGGTCTCAGATTTGAGGCCCTAACAGCATTT  
AAAAGGGAGCANCTGGTAGAACCANATTTGGGGAATATTTATGGGGAGAAGAGAATGAT  
TAAGTGAGCTACAGAAATA

Sequence 696

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTAGCCAGAGGGAG  
TTTATGCTGCTGTGTGGCCAGTTTTTCCACATGTCTGCAACAGTTACAATTTTTGACAGA  
TATCTTGAGAAGATTATAGATTTTGATAGAGGCAGTAACTTTATTAGCAAGACTGATTTT  
ATATTAGAATGAAATCTCTGGGTCTTTTTTGATTACTTTATGTTCTTAAAAAGAAAGA  
CATTGGGCCAGGCACGGTGGCTCACGCCGTGAATCCCAGCACTTTGGGAGGCCAAGGCGG  
GCGGATCACGAGATCAGGAGTTCGAGACCAGCCTGACTAACATGGTGAAGCCTCGTCTCT  
ACTGAAGATACAAAAAATTAGCTGGGCATGGTGGTGGGCGCCTGTGATCCCAGCTACTC  
AGGAGGCTGGGGCAGGAGAGCTGCTTGAACCCGGGAGGCAGAGGTTGCAATGAGCTGAGA  
TCGCACCATTCACCTTAGCCTGGGCAACAGAGTGAGACAACGTCTCAAAAAAAAAAAAA  
AAAAACATTTGGCTGGGCTTGGCAGNCTTTGGGGTT

Sequence 697

CGCGGTGGCGGCCGCCCGGGCAGGTACCCGAGAACCTATGTTGGTTGTTACTGGTGGCCT  
GATTCCTGGGCCTCAAGGTGGCTTGCTCGGATGCCAGTAGTGGCAGGGGTAGAGGGGTTT  
TCAGGCTCCTAGATAGCTGCTGTGGCATGGGCAATAGCAGTAGCCATGGCAAGATGATTT  
CTCTGGGTCTAATCTGTGTGATTGATTTGGCAAGTAGCTGTGATGGGCTGGGCGGGC  
CTGTCTCCAGGTCCACAGTTGGTGCTTGCAAGTATATACCANCTGAGGAGGTACCT

Sequence 698

CGAGGTACTACCGCCAGATGCTGTTTACACATAGAGTTTTGAGCTGTTTCTCAAGGAGGG  
GCATTGGTGCCATTTGGGCAGAATGATTCCTTTGATGGGCAGAAAGGTCCCACCCCTTCGCA  
GAATGTCTATCACTAACTGCAATCATTCTCGCCAATCTTTAGGGTGGATGGGAAGAGTA  
ATGCCCAAATGAGAGCCCTCCCAGATGTTTCAGAGCAGCGGATATGAAGTCATACAGCCGG  
GTTTGGTTTTTATTCCATCCATTCTCTCTGCGGACCTTAGACAAGTGATAATGCTCTA  
TGCTTCAGTTTCCCCCTTGTAATGGTGGTAATCCCAGGTACCTGCCCC

Sequence 699

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTGGTTTCAGGT  
TGGAGCCAGCGGGGTAAAGGAGAGAAAGGAAGTGAGAAATGAGAGGGAAGGGGTTCCAGC  
GTTCTTGAGGGGCTGGTGCCAGGCACTGGGGCTTGGCAACAGCTCAGTCCTTCTACTCC  
ACANGGGCTGAGCTACACTGTAGCTTTNGCAAATGGGCAGGACCAGGACTCCAGGCTTAG  
AAGTGCTGCCAGACAAGAAGGGGAAAGAGCTGGGGACCTCCAGTGGGGGAGTCAGTCACC  
CGCAAGTTCTGCTCTTGTGTGGACCGGGCTGGCTGAAAGGCAGAGTCCTGCATTTCAAT  
CCTGCTTTTTCACTGTTACTTAACAGTAGAGGATGACTCAGCCTACCCTCTAGGAGGATT

Table 2

CCTTGGTTTGAANCATCTTGAGTCACCTGAGTGGGTGGAATGAGGCTTANTGACAACACT  
ACACTTTTTACAGATTAAAGGATAAAATGGGAAATATTATGAACAACCTATTNCTATNCA  
TTTCAACAGCTTNAGATGAAAAAGNAAAAATTCCTTTAATGATACCACATTACCCAAAG  
TTTTCTCAAAAAAGAAATAAGATAAGCTGTNTANTCCCTACNCTTCTTTAAAAAT

Sequence 700

CGCGGTGGCGGCCCGCCGCGGCAGGTACCTAACCCCGAGTGTTAGCTTCCTTTGCATACT  
ACTGTTCTGAGATGTGTTGGTTGAATTATTAGTAAGGATTTGAAGGCTATGATGCATTCA  
ACACTCAGTGCGGATTATAGATCCAAGAACACAGACTTTCTTAAAGTATGAGGCTTACAG  
GACTTTTTGTTTGGCTAATTAAAGTGATAGTCTGTTTTAGAATTCTAATTATTATTTCAG  
AGATGGGGTCTTATTATGTTGCCCAAGGCTGGAGTGCANNGGCTATTACAAGGCATAAA  
TCTGAGCTCACTGCAGCCCTCAAACCTCCTGGGCTCAAGCAATCCCCCTGCCTCAAGCCTC  
TGAGTAGCTGGGGCTGTTTCAAAATTTTAACATTGGTGCTGTAAACANACGCACTGTTTAT  
TGATTAGTTGGGGACTGGTGAGAAAAATTGTNGAGTCTCTNAAAACTTAAC

Sequence 701

CGCCCGGGCAGGTACACCAACAACAGCCAAGCTCAGAGCCAAATCAGGAAGGCAATACCA  
TTCACAACCTGCCACAAAAAGAATAAAATACTTAGGAACACAGCCAGCCAGAGAGGTGAAA  
GACCCCTGCAATGAGAAATGCAAAGCACTCTTCAAAGAAATCAGAGATGACACAAACAAAT  
GGAAAAAAGTCCATCCTCATGGAGAAGAAGATTTAGAGGCTACTGATTAGGAGTTTCAG  
TGGAAGTGGGGTCTGAAGCCAAATTGCAGAACTCTGAGGTGTATGTATGCAGTAAGTAA  
AGAGACAGCAGATAATGAATCTTCTTTAGAACACAGAGCAATTGTTTTCCATTTTTTTTT  
TTTTCATGGAAGGGAAAGCAAGTGTCTAATATATCATGACAGCCCCATGTTGTTCTCTAA  
ACACTACTATGCATCCTGAATTTCTTTGAATTTGCACTCCACTTATTTACGTTTGGG  
AGATACTAAATATTNGTATCCTGGTTTTGCAAAGTGGAGAAAAGACTTGGGTGCAGGCA  
GAAAGTGCAGGGAAGAAAAGAAANGTGTAGGANGGCATGGTTTGAAGTGGGTGGCCCTA  
TNGGCAACTGGAGCTGGGCCTCACTGANAGCTTTGGAGGACCCACAAAGAACACACTTNT  
GGGGATCATCCCTTGAA

Sequence 702

CCGCGGTGGCGGCCCGAGGTACCTTTCTTTCCAGGCCATGGCAAAAAATCCAATTATGT  
CCGTCTTGAGTCTGTGGTCTTGCTTCTTATGTAGTATTTCTTTGTGAGCTGAAGATTAA  
TGCATGGATTACCTCCTTCAGCACATTTCAATTTCAATTGTGAAGAAAAGATTCCAGGCA  
CTGAATGTAAATGAACATGACATTTTACATTCCTTCTGAGAGCTGGGTTGGTCT  
TAGTTGCTGTGAGGCTCTAGACACCGACCATACAGGGCCGTGGGGCTGCTCCTGGACATG  
AACATCTCCGAAGTTCTNCCCAGTCCACTTTACCCCTCTGGGGCTCACCTTTGAATGTG  
TNTCCCCCGTACCTGCCCCGGCGGNCCTGTCTAGAACTAAGTGATCCCCCGGGCTG  
CAG

Sequence 703

GGGCCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACAGAAACCAGTTAAGAGGCTG  
TTATTGCAGCAGTGCAGGACAGATATGATGGAACCTCTGAACCTTGAGGGATGGATGTCAAG  
ATGGAAAGAAGTGAACACATTTAAGAAATAATGAAAGAGTAGGTAATATCAGTAAGCCTT  
AACAAATGGATTGACAGTAGAACTGAGGGAGAAGCAAAGATCAAGCACAGCCCTTAAGCTT  
TAGTCTTCTAAAAGTGAATGGACCGTTGAGACAGGGAACATTGGATAAGTTCCAAGTTGG  
AGGAGAAACCATATCTTTAGAAGAGGAAAAAAATTCAAATTTATGCATTTCATATCTTTT  
CCTCANAACATAGAAAAGGGATATTAGGATATAGAAAAACAAATTACCTACTTCTGAAAG  
TTGCCTTTTAGATTAAGGGAAAAGTTATAGCAGTGAATCTATGACCATTGATTTTTTGGG  
GAGCCCTCACTTAACATTTCTGGCCCTAATCCTNANTTTAATCTATCTTTTGGCCAGTT  
CNTANCAATATTNTCTTTGCAGCANCATGGGGGGGG

Sequence 704

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACGCGGGTATTTTGGGATGTGG  
ATGCCATTGCGCCACACAAAAACACTTGGGATTCATTCTAGATACCNNAATTCATCCCAA

Table 2

TTTCCCCCTTTAAAGTCANATCTCACCTACCTGTTTGGTCAGAGAGATGTGTGTTTAA  
AATCCCCAANGAAGGAGGCAAGGACTGTGCCCTCAGATGATTATTGGTGAAGTGGGTTTA  
TGCTTAATTTTCAAGCTTAAGAGAATGTTGCTGGGTCTCTGCCTAGGACAGGCAGCCCACTG  
TGGCCCTGGGTGATGAAGGAAGCCACAGAGGCCAGGGTTTGTACCNGTGGCTGCCAG  
TGGTCTGCAAAAGTCAGAATTGAGCTAATCCTGTGAAAGGATGAACGCTGATGGGCAAGT  
TGTATGGTAGGTTGCTATGGGGCTTCTTGATCTCTCAAATTCAGGTGACAAAGATCANT  
GCNTNCTTGAGNGATCCCTTTCCAGCAAGCTCTTGGTGGCTACAACTGGTTCAGGTGT  
GGGAAAGANCATACCAACTTTANCCTTNGGTTTTCTTT

Sequence 705

GCGAATNGGAGCTCCCCGCGGTGGGCGGCCCGAGGTACACACAGTTAACCACAAAACAG  
GCCTCTCTGAAAAAGCCATTGCCATGGACTGCCAGACAGACAATGACAAGACACAAATAC  
CTTCTGGTGTGTGAGCCACGGGACATGTGAGCTTCCCGCTGATGCTCCTCTTATATCAAA  
GATCACTTTTACAAGATGAGCGACTCAATATCTTTATCAAACCAATGATCACCTGCAAG  
CTATGGTATATTTTTGCAGCTGTGTAGAGCTATGTGGCATGNGAATGTGGGACTTATAAA  
TTGCTGATCCAATAAATAGACATTATGGGCAACAGTGTCTTATCAGCTAGTGTGTACCTT  
GCCCCGGGCG

Sequence 706

GACTIONTAGGGGCGAATNGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACCCC  
AAGCGGGGACGGTAAAGTCAGAAAAGACAAGGCTGGGGGTAAATCACAGAGAAATCTAAAA  
ACCCGCTCGGCCTCGCTACTCTTCTCCTTCTCTGAGGTGCAGAGGCGCGGTGGGACGAC  
AAGGAGTTGCGAGAAAGGGCAGAGCTCACTGAGGAGGCAACAGAGAAAGTCCGCTAACAA  
TTTTTGAAGGCCGTAAAGTTAAACATGTTAAAACTGTAGCTACTCACTCAGCCGANNTCT  
AGTAAAAAGATGCGGCAAGATCAACAAGGCATATAGCTTGCGCCCGCCAGAAAGTCCGG  
GGGCTTCACACCCATCCCCCGCGTACCT

Sequence 707

TACTATAGGGCGAATNGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTGCCTAAAAAGTAG  
TCTGGCCTTTGCCCTCTGGTGTGAAAGGTAATCTATATTACCTCTAAGAGGAATGTCTA  
GTGTTTCTGATGGGGGCTTGCTATGCCAGAAATACTAATCAAGGGATTGCGGGTAGGAGC  
TTTTGGTCACGCAGTATCAGCTGACCTGGACACTAAGATTAACCATGTAGACAGTTAATC  
CACCAACAGTCAATCATGTCTACATGCTGAGGCCCAATAAAAACTTCCAACATCAGAG  
CTCTGGTGAGCTTCTCTAGTTGGCGATAGTTGGTGCCTGTTGTACACATCAAAGACAGC  
AGAGTAATGAGTCCTGCTTCCACAGGGAGAAGACACCAGAAGCTCTGTGTCTGGAACCTT  
NCTGGACTTCAACTTACGTACCTGCCCCGGCG

Sequence 708

CCGCGGTGGCGGCCGAGGTACTGTGTCAAGCTTTTACATTGAGCTAGTGCCATTGGGGG  
TGGGGGGTAAAAAGCTATTCTTATTTTAACTCTTCAACATTTTAAAGTCTTCAACA  
TGATCTTTATCATGTTGTGATGTGACCGCTAGATTTCATTTGAGGCTCTCATATAATT  
TACTTGACCAAGTCCCTACTGGTTGACAGGAGACCATCATGGTTCCTATGATTTCTCAA  
GTGTGACCCCCAACAAACACAGTGTCTAGAAACACCTGTCCCAGAAACACCCAGTACCT  
GCCCC

Sequence 709

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACGCGGGGACGTTA  
AGAACTGGACTTACAAGATGGATANGACCTGGTGGCAACTGTCCTTGAGGAAGCCGGAGC  
CTGGAGAGACAGATCTCATGTTATAGCAGAGTACCT

Sequence 710

AGGTACATTACCCTACGCTCCAAGCGCAGCAAGCCGGCCAATATCCGTGGCACCGTGAAG  
CCCAAGCGCAGGAAAAAGCATGCAGTGGCATCGGCTGCCCCAGGGCAGGAGGCTTTGGTC  
GGACCATCCCTTCAGCCGCAGGAAGCGGCAAGGGAAGCTGATGCTGTAGCACCTGGGTAC  
CTGCCCC

Table 2

## Sequence 711

CCGGGCAGGTACAGTGAAGCTTTGACCTGAGGAGCTCTTCTGTAGGTGAAGAGTGGTTAA  
CTATGGTTCTCTGTGTGCCTGGGGCCCCCACTCCTAGGACTCATCCACCCCCTACCCAGA  
ACTTACTAGTACCT

## Sequence 712

GGGGCCATTGAGACTGCCATGGAAGACTTGAAAGGTCACGTAGCTGAGACTTCTGGAGAG  
ACCATTCAAGGCTTCTGGCTCTTGACAAAGATAGACCACTGGAACAATGAGAAGGAGAGA  
ATTCTACTGGTCACAGACAAGACTCTCTAGATCTGCAAATACGACTTCATCATGCTTGAG  
TTGTGTGCAGCTGCAGCGATTCTCTGAGCGCTGTCTATCGCATCTGCCTGGGCAAGTT  
CACCTTCCCTGGGATGTCCCTGGACAAGAGACAAGGAGAAGGCCTTAGGATCTACTGGGG  
GAGTCCGGAGGAGCAGTCTTCTGTCCCGCTG

## Sequence 713

AGGTACTTTACTTTTTATTTTTGTATCTCAGGCCAAGCCAAGTTGAATGTGTAGAAACAT  
CTGCACAGAAAAGAGAGACCCAAACAGAAACCAAAATTAACCTGTAACACTTTTTGACCCTA  
TTAACGGCATAACAGTAAGGAAATCTAGCTCCTCGAACCAATATACNGGGGTCGGCAATC  
ATTGTGCCACAAAGTTTAACAATATTTGTAGAGACTATGAAGCCATTTGCTTCATGTCT  
CTACTGAAATCCAATCTTCCATTTTATTTCCATCCCTCAATCCAACCTGCTACCTGGTA  
CCTTCAACACTGTGTCTTTGAAGGATTCTGTA

## Sequence 714

CCGGGCAGGTACGCGGGGCAGAGTCATTAAGATGGGCAGGAGTCAAATCAGATAAGGACA  
TGGGGTAAACTGCAGGCCAGGCCCATAGATTGTTCTGAGAGTCATGGGAGACTATTGGTG  
GGTTTTGAGTAGGAGAATCACATTTGCTTTTTGTTTTCAAAAAGCATTTTGGCCGCTCT  
GCAGGCCTGCCTGTATTAAGGCTAGAATAGAAGCCAGGAAAGCAATAGTCCAGACAGGA  
GATCATGATGGCGTTGGCTTGGGTGGCAGTAATGGAAGTGGTGAGAAGCAGTCAGGCTCC  
AGATACAGTCAGGCTGAACACAGAACTGGC

## Sequence 715

AGGTACTAGCCCTCATCTGCAAATCATCCTCTGGGATGGGCTGCATGCCAGATGGTGGCT  
CTTAATTGCTTGAGGGCATTGAGAGAGCTGTGATCTTCAAGACCTACCTCTCCAGGTGG  
CCTGAAATAGCACCAAGTCTGAAAGCAGGGCTCTGGGCAGTGACTTGGGAAAACAGGTGT  
GGATACCAAGTGTGATGAGGACCCCTTGAGCTTAGCTTTGTTCTGTGGTGGCAAGTGGTG  
GGTCTCACCCCCCAGACAACAGCCTGGACTATGAATAGAGACCACAGCCCCCAGAAACCC  
ACCTGGCCCATTCCTCCTCCTCCTCCTTCCC

## Sequence 716

CCGGGCAGGTACGCGGGGGTGGAAAATATGTCCCTGGCAAATGTCTGCAATGGGCCTG  
GGATATGAAGATATAGACGAGATTGCTCCTCACATCATCTATTGTTCCATCACAGGGTAT  
GGTCAGACAGGTCCAATTTCTCAGCGAGCTGGTTATGATGCTGTTGCCTCGGCTGTTTCT  
GGTCTGATGCACATCACAGGGCCTGAGGTGGCGTGTTTGTCTCACATAGCTGCAAATTAT  
CTTATTGGTCAAAGGAAGCGAAACGTTGGGGTACCT

## Sequence 717

ACGACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAAGAAACCC  
TTTGACAGACAGCTCATTTATAGAGAGAAGCTAAGTATTTATTTACTTGCTACTCAATTA  
AAATACGACCATGGTAGGCAACCAACCAGGAGAAGAGCTAAAAGTTTGAAAGCACTGCCC  
TTTTCTCTACTATAGAAGTTACAGGGTCAAGCCTTGAAAAATTTCCACAAAATAAGGCTT  
TGCTAAACATATTTACCTTATCAGAAAGATTGTATCTCAAAAAGTTACCGTTTTTCTTC  
AGGCAAGACAAGAAAAACTGCCTGTCCTAATCGACAGTACCTGCCCGGGCGGCCGCTCTA  
GAACTAGT

## Sequence 718

CCGGGCAGGTACAGCCAGTGTAGAGTAAGAGCCCAAAGAGAGTCAGGTGTCCACATGGGG  
GAGCAGCCTGACATGCTGGTTCGAGCCTCAGCAGAGGGAATGGGGAGGGCACCCCTCCTAC

Table 2

GTGGGGAGCTTGGTGCCTAGTTCTGGATCCACACAGAGGACTGTGAGGACAACCACACA  
GAGGAAAGGCTCAGGGCCTGGTGTCAAGGCTCATGCAGGGTGAGGAGGGCACTCAGAGGT  
GCCGGTGACCCAGTGAGGGGAATCAGAGATCAAGCAAGTAAAATGTACCT

Sequence 719

CGAATTGGAGCTCCACCCGCGGTGGCGGACCGAGCTGGACTCTGGGGCCTGCGGNGGCTN  
CAGCCTCAACTCAGAGGGCAACAGTGGTAGTGGTGACAGTAGCAGCTATNACGCACCAGC  
TGGCAACTCCTTCTAGAGGACTGCGAACTCTCCCGGCAGATCGGGGCGCAGCTTAAGCT  
GCTGCCTATGAATGATCAGATACGGGAGCTACAGACCATCATCCGGGACAAGACAGCCAG  
TANAGGTGACTTCATGTTTTCTGCGGATCGTTTGATCAGACTTGTGTGGAAGAGGGATT  
GAATCAAGCTGCCATATAAGAATGTATGGTGACCACTCCAACAGGGTACCCT

Sequence 720

CCGCGGTGGCGGCCGAGGTACACTTAGCAATGAACGAGAAAACTTGATAGATGCTAGT  
GTCCTCCAGAGCAGCATTCTCTTGTGTCCCTGAATTAAGATGAAACAATTTGATAGGTC  
GCATTATTTAGTTGCGTTGCTTTAAAGAAAAAGAAAACTTTTCTCTATATATAAGG  
GATATATATTCTAAATATAGGGGATATATTTCTGAAAACTTTCCCAAATACCAACTTT  
CTGATAAGGCAACATCTGTGAACCTCACTGAAGATCAGAGGCAAATCTCAGTTAAAGGC  
AAATCA

Sequence 721

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACAGAAGGGCTGAGGCTT  
CTGTCTGAGTTGACCGTGACCTGTGGTTACAGCATTTTAGGACTTCGTAACAGAATGATC  
CACAGAGGTACAGAGGCCCTTGAAAGAACGCTGAAGGAACTTGCATACAAACAGTCTCA  
AGGAGGCAAACACATGCTTCAGCGCTGCCCGCGTACCTGCCCCG

Sequence 722

CCGCGGTGGCGGCCCGGCCGAGGTACAATGGGTGTTCAAAATTTCTCTTGTAGGGTT  
GAAAATTTTCAAAATAAAAAGCTGGGGATAAGATGATTTGGGTGGGTCTGGCCAGAAATA  
ATAAGAGCAGGATTCTCAGCTCTCCTTTTTTGCCACCGTGCTTCTGCAGTGGGACTCAA  
AAAGAAGTACCT

Sequence 723

AGGTACTCTGCTATAACATGAGATCTGTCTCTCCAGGCTCTGGCTTCCTCAAGGACAGCT  
GCCACCAGGTCTATCCATCTTGTAAGCCCCCGCGTACCTGCCCCG

Sequence 724

TTATTGGAGCTCCCCGCGGTTTTGGCCCCGCCGAGGTACGCGGGGGGACTTACAAGA  
TGGATAGGACCTGGTGCGAGCTGTNTTGGAGGAAGCCAGAGCCTGGAGAGACAGATCTCA  
TGTTATAGCAGAGTACCTCGGC

Sequence 725

CCGGGCAGGTACGCGGGGAGTGGCATCCTTTGAACTCACGGATCCAGTCATAACTGAAGT  
TCCATCTACACCTGGGGTCTTCAGACCCAGGCTCTGGAAAAGATCCTGTTACTTACAAGC  
AAAAGAAATTCTGCCTCTTACCCTCAGCATGTGAGTACCT

Sequence 726

AGGTACATTACCCTACGCTCCAAGCGCAGCAAGCCGGCCAATATCCGTGGCACCGTGAAG  
CCCAAGCGCAGGAAAAAGCATGCAGTGGCATCGGCTGCCCCAGGGCAGGAGGCTTTGGTC  
GGACCATCCCTTAGCCGCAGGAAGCGGCAAGGGAAGCTGATGCTGTAGCACCTGGGTACC  
TGCCCCG

Sequence 727

CCGCGGTGGCGGCCGAGGTATCGCAGCAAAATGCAAAATCGTGTGAAAATCAACGTGGA  
ACAGGAAATGAGGTGCGGGTGTCAACTGGTTACAAAGGGTCAGAAGTTGTCTGGTGCCCCG  
ACAAGGACACACATCTCATTACATAACATTGGTGGTAATTTAAAAATGAAGTGATGTTATT  
TTTTCTTCGAATTCATATGTATTTTTTTTCAGGTGGCCACTTAGTTGTAAGGACATAAA  
TACTCATTAAAGTTGTTGGACCTATTTAATAAATGGACATGTTAGGTATTTCTCCTGCC

Table 2

G

Sequence 728

CGAGGTACCTTTCTTTCCAGGCCATGGCAAAAAAATCCAATTATGTCCGTCTTGAGTCT  
GTGGTCTTGCTTCTTATGTAGTATTTCTTTGTGAGCTGAAGATTAATGCATGGATTAC  
CTCCTTCAGCACATTTCAATTTCAATTGTGAAGAAAAGATTCCAGGCACTGAATGTAAT  
TGAACATGACATTTTGACATTCCTTCTTCTGAGAGCTGGGTGGTCTTAGTTGCTGTGAG  
GCTCTAGACACCGACCACAGGGCGTGGGGCTGCTCCTGGACATGAACATCCTCCGAAG  
TTCTCCCCAGTCCACTTTACCCCTTCTGGGCTCACCTCTGAATGTCCCCGCGTACCTGC  
CCG

Sequence 729

NCGCCCGGGCAGGTACAAAACAGATCCTCAAAGATGGGGTTCAGGGTTGTTTTAGACAC  
ATCCTTCACTTTTCTTTGTATAGGTAGTTGTATTGAAATTAACCTTATTGCTATGGGTC  
ACTGTGGATAGTGCACCAAGTGTCTCGGGAACAAATAGCTACTGTCCTTGGTTCTTATGG  
CACGTAGTGATAGCTCCAAAGGCAGTGGAGCAGGAGGCTGCTCCTGGGAGGACTAGAGTA  
CCT

Sequence 730

CCGCGGTGGCGGCCGAGGTACTGTGTCAAGCTTTTACATTGAGCTAGTGCCATTGGGGG  
TGGGGGGTAAAAGCTATTCTTATTTTAACTCTTCAACATCTTTAAAGTCTTCAACAT  
GATCTTTATCATGTTGTGATGTGACCGCTAGATTTCATTTTGGAGCTCTCATATAATTT  
ACTTGACCAGTCCCTACTGGTTGACAGGAGACCATCATGGTTCCTATGATTCTCAAAGC  
GTGACCCCCAACAAACACCTGTCCTAGAAACACCTGTCCCAGAAACACCCAGTACCTGCC  
CG

Sequence 731

ANGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACCCAACCTTGCAAA  
TGGGAGCTGGCCAGTGGGTGGGGTGACCAATCAATGAACAAGAGAGGTCTGAGACCTCC  
CTGTCCGTCGGGTCTGAAGGGCTGCGTGGGGGCATGTGGCCTCACCTGTTCTTAAGGTA  
GAACTGCTCCATAAAGGGCCANGTGTGCAAATCCTGGTCTGGGATGTGAGTGCTGCTGA  
GCCAAGGTGCACGGAGCATTAGTTCATNCTTCTTGAAACCTGCGGTGGCAATGGTCTTG  
ACAGGTATTGGGTTA

Sequence 732

AGGTACATTACCCTACGCTCCAAGCGCAGCAAGCCGGCCAATATCCGTGGCACCGTGAAG  
CCCAAGCGCAGGAAAAAGCATGCAGTGGCATCGGCTGCCCCAGGGCAGGAGGCTTTGGTC  
GGACCATCCCTTCAGCGCAGGAAGCGGCAAGGGAAGCTGATGCTGTAGCACCTGGGTACC  
TGCCCG

Sequence 733

ACTACTATAGGGCGAATTGTAGCTCCCCGCGGTGGCGGCCGGGGGCCATTGAGACTGCCA  
TGGAAGACTTGAAAGGTCACGTAGCTGAGACTTCTGGAGAGACCATTCAAGGCTTCTGGC  
TCTTGACAAAGATAGACCACTGGAACAATGAGAAGGAGAGAATTCTACTGGTCCAGACAA  
GACTCTCTTGATCTGCAAATACGACTTCATCACGCTGAGTTGTGTGCAGCTGCAGCGGAT  
TCCTCTGAGCGCTGTCTATCGCATCTGCCTGGGCAAGTTCACCTTCCCTGGGATGTCCCT  
GGACAAGAGACAAGGAGAAGGCCTTAGGATCTACTGGGG

Sequence 734

CCGGGCAGGTACGCGGGTCTAGAAACAGTGATTGTTAAAATTGCCTATAAACACACAATA  
TAAACAATATGCCACAGACCCAGAGGCCCCAGCATAGTTTCTGGAAGGTGAAGTCTCAC  
CTCTGCCAGAGTAGAGTCACAGTGGGAATTGAGGCTTGGCATCTGGGTGCCTCTGAAGCT  
CTTCCTGTGGCTCCTGTTAGACAATTGACCCCGAAACACAGAAGATAGAGATTGCACATT  
GCGTTCAAGTAATTGTTGTTTATTTATGTTATTTCTGAAAATAAAAGACAGCACAGGCTG  
CTTATCTTTAAACCACACAGTACCTCGGC

Sequence 735

Table 2

GGGGCCATTGAGACTGCCATGGAAGACTTGAAAGGTCACGTAGCTGAGACTTCTGGAGAG  
ACCATTCAAGGCTTCTGGCTCTTGACAAAGATAGACCACTGGAACAATGAGAAGGAGAGA  
ATTCTACTGGTCCAGACAAGACTCTCTTGATCTGCAAATACGACTTCATCATGCTGAGTT  
GTGTGCAGCTGCAGCGGATTCTCTGAGCGCTGTCTATCGCATCTGCCTGGGCAAGTTCA  
CCTTCCCTGGGATGTCCCTGGACAAGAGACAAGGAGAAGGCCTTAGGATCTACTGGGGGA  
GTCGAGCGGCCCGCGTCNAGGTACACCTGGTGCCCN

Sequence 736

CGCCCGGCGAGGTACATCTTGGTCCAAGCCACCATCTTCATCTCTTGGTTGGATTAGAGC  
AGTGACTGCCTGTAGATCTCCTTGCTTCTACTCTTGCCACCAACAAAAAGTCAGTAAAA  
ATGAAGTCAGTA

Sequence 737

CCGGGCGAGGTACCATGGCGACGCGCGGTGGGGCTGGGGTGGCAATGGCGTTTGGTCCCT  
CTTATCCGCCCGGGCCGTGACCGCGTTCTTCTGTTGTTCTCCCTCGCTTCTTACAGGC  
CCAGACCTTTCTTCCCTTCCAGCAGCCGGAGAAGTGCAGACAACAACCACTACCT

Sequence 738

CCGGGCGAGGTACACGCCAGCCTATTCTCAGCACAGCTGCTAGAGTGTCTTATACCTTC  
ATTGACTTAAATCCCACAGTGGCTCTCCATTTCACTTAGTGAATGCTATCATGTATTCA  
GTGGCCCAAGGGCTCCATCACCTAGCCCTCTGCTCCCTAGTACCT

Sequence 739

CCGCGGTGGCGGCCGAGGTACGCGGGGGAGAAGTTCGGAGGATGTTTCATGTCCAGGAGCA  
GCCCCACGCCCTGTATGGTCGGTGTCTAGAGCCTCACAGCAACTAAGACCAACCCAGCTC  
TCAGAAGAAGGAATGTCAAATGTCTGTTCAATTTTACATTCAGTGCCTGGAATCTTTT  
CTTCACAATTGAAATGAAATGTGCTGAAGGAGGTGAATCCATGCATTAATCTTCAGCTCA  
CAAAGGAAATACTACATAAGAAGCAAGACCACAGACTCAAGACGGACATAATTGGATTTT  
TTTGCCATGGCCTGGAAAAGAAAGGTACCTGCCCG

Sequence 740

CGCGGTGGCGGCCCGGCCGCGGCGAGGTACTTGGGTGTGATTCAGGAGTATGCAAGCCTTTC  
TGCCCCACTTTGTTGCCTTGTTAACTAAGGGAGGCTGAGATAAGTCCTCTCAGGTGCAGT  
CAGAGTCTGTCTAAGATGGGGGTAGGGAGTTGCTGTGCCTCAGTGGTTTACTTTCTCAA  
TATAGACTGTTAGCCATATGTGTATTACCTGAAACCTTAAGGAGAAAGCATTTTTGCCG  
GCCTGGAAAGGACACAAGCAAATGTAGCCTTGATGGTGGAGAAACGTCTCTAGCAGGGCT  
GTGCATCTGAATCAGCATTGAAGCAGCGCCACCTTGTTGGTTGATGCTGAATGAGCTGTGT  
ATTCGCCAGGTTCTGTGATTCTTACCCTGTCTGCATGCTGTTGAGTAGCTAAAGTACC  
T

Sequence 741

CGAGGTACGCGGGGACATTCAGAGGTGAGCCAGAGCGGGTAAAGTGGACTGGGGAGAAAC  
TTCGGAGGATGTTTCATGTCCAGGAGCAGCCCCACGCCCTGTATGGTCGGTGTCTAGAGCC  
TCACAGCAACTAAGACCAACCCGGCTCTCAGAAGAAGGAATGTCAAATGTCTGTTCAA  
TTTTACATTCAGTGCCTGGAATCTTTCTTCACAATTGAAATGAAATGTGCTGAAGGAGG  
TGAATCCATGCATTAATCTTCAGCTCACAAGGAAATACTACATAAGAAGCAAGACCACA  
GACTCAAGACGGACATAATTGGATTTTTTTGCCATGGCCTGGAAAGAAAGGTACCTGCC  
CG

Sequence 742

CCGCGGTGGCGGCCGAGGTACAACCTTGTCATAAATGGCAGTGTGGGACATTTACATTCTT  
TTGGTCTACAGTTCTGAGACTATTTTTATGCATGTATGATTTATTCAGTAAACATTTA  
TCCTCTGCTGCACGTCAAGCACTATGCCAGACCCGATAGGAGAGAACCAGGGTGAGTGT  
GACCCGGCCTCTGCTTGGAACGAGATGGGTGTCTCTAGCCAGGCCAGGTGCTTACCATGT  
GCCTGGTGTGGGGTCCATGACACCAAGCAGGGCAGACCTAGGCATCCTGTTGGTGCAGCT  
CTGTAAAGGGGACAAAGACAGACAACAACCATGACTCCGAGAAAGTGCAACAGGTGCCA

Table 2

CGAGGAAACANAATTCCAGGACAGGAAGGTCAGGGAATGCCTTTTCTGGACCAAGGGGGG  
AAAAAGAACCAGCAGGGGAGGGTATTCTGGCAGAAGGGGCAGTAGCTTGAAGCCTTCAAA  
AGTGGAAGTGTTATTAATTCTTTGGANGGGGGGNAAAGGGAAATGGGAGCTTGGGAAAGG  
GG

Sequence 743

CGCCCGGGCAGGTACAAGGACAATAGGGATACCCTGGAGCTGTCCCAGTCCAGCCCGAGA  
AGGGCATTCTCCCTACTTGTGTGTCATCTTAGGGACTCTCACTTTGACCCTGAGTGTGAT  
AGGAACCATGGGGAAGTCTGAGCTGAGGTTGGACGTGAAAGGTCTCATGTTTTAACAGGG  
TCACTCTGGCCCCCTCCACTGAGAACAGGCTGAAGGTGGCAGGGACTGAGTGGAGAGACC  
TCTTGGGAGACCACTGCAGCAAGTCAGGTGAGAGCTGGAGGTGGCTTGGCCAATGGGTA  
GCTGTGAGGTGAGAGCAATGGCTGGAGCCAGGAAACCTCTGAGTACCTCGGC

Sequence 744

CCGCGGTGGCGGCCGCCGGGCAGGTACCCTGAGCCTCCTGTGCCATTCTTGCTAGCTGG  
ACAGAAGACATTGCTACTGAGCCAAGAAGACTTGATCTCTTACACCGAGGAAGAAGGG  
AAGGTCTGATGCAATGAAACAGCACGTTTGTATAATTCTAGATCAGAACCATAATAGTA  
ATTTGCCTACTATGTAAACATTGAACAACTACTGTTTTGTGAGCCTGAAAAGTTGGTACC  
T

Sequence 745

CCGGGCAGGTACTGTGTTTCTCCACCTGACCTAGAAAACCTTGATTCTGAAAAGCCTCA  
CCCTAATTTGCCACAACCTGGCGATCCATCCATACTGTTACAGCCCTCAGGAGAGACT  
GGATAATTATGAACACACCTTGCTTTCTTCCATCATTTCCCTTTTCCCAAGGGGAACATA  
GCTGCACTGAGAACACCAATCTCTCAACCACACCCTATCCCAACCCCTGTGGAAAATATA  
GTAGCTACCTCACCATGGGAGTTGAGGGAATGAAGACTCATGTCTTCTGGGATCTGGGT  
CAAGCCCAGGTCAGCCATTCTTCAGACTTGCAACAGTACCT

Sequence 746

CCGCGGTGGCGGCCGCCGGGCAGGTACCCTGAGCCTCCTGTGCCATTCTTGCTAGCTGG  
ACAGAAGACATTGCTACTGAGCCAAGAAGACTTGATCTCTTACACCGAGGAAGAAGGG  
AAGGTCTGATGCAATGAAACAGCACGTTTGTATAATTCTAGATCAGAACCATAATAGTA  
ATTTGCCTACTATGTAAACATTGAACAACTACTGTTTTGTGAGCCTGAAAAGTTGGTACC  
T

Sequence 747

NCGAGGTACTGGGATTACAGTGTGAGCCACCGCACCCAGCAACTGTTACATTTTTTAA  
AAAACAGCTCTACCTCTGAGTTAAACTGATTTTTGTCAAATTGTAACTTTAAATATT  
AGCCTTTCCCCAGTGCTATGTGCTCTTAAAGAGCATAGTGCTTAAATTTGGACTGTAAC  
TATTTTAAAGGCTTTTTTTCTTTGCTGCCATGTTCCAGGTCACGTCTGTTAAGTGTTTT  
TGTTGTTGTACAGTGTTTTAGAATTATTCTGATGCAAAAAAAAAAAGAATTATTCTCAT  
GCAGTAGCTGAAACCAATGCAGAATATGCTGGTTTTGCAACAATTTTCATGTCATGAAATG  
CTTANGCCAATTTTCAGTTAATAGAATACTCCATANGTTTAAAAAGTTATGATAAATT  
AGAAGCCATTTGNTCTTTTACATTAATAGGAAGCATTANTTCAAGATAAATTACTTCAGG  
ATTAGGGATTA

Sequence 748

CCGGGCAGGTACCACCACCTATCCACACTCTCACACAATCACCCCTTTTGAAGTAAAGCC  
TATATTTTAAAAATAACCATTACAGATTGTGAGTGCAGTCTAGGATCACATAGCAGAACT  
AAAAGCTAACTGGCCCACCCACAAAGTAAATGTGAGACAGAGGGCTCGGGGTAGCCATAC  
TCTAGCCAAGTAGTACCT

Sequence 749

CCGCGGTGGCGGCCGCCGGGCAGGTACACGGAGAATTTTAAATGGGCAGAAGAGAATTT  
AAAGGTGTTATTTACATAAATGTAAAAGCCCCTAAAGTGGAGAAATCTCTCATAAGGAAT  
TTCAAACATTTGCTTGACTCTGGAGGCCTGGCATACTAAGGAATAGGATTCCTCCTAAGA



Table 2

ATTACACATCTGAAGGCTGTCCTGAAAGACTTTCATACTCGATGATGCTCTTTTGGGTA  
CCT

Sequence 750

CGAGGTACCCGAGTCGGATTAGGAGAGGCGGCCAGGGGAGCCTGCCTTTAGAAAAGAGCTT  
CGGATGATTGAGATGCACACGTTTGGGACCGTGGGCTATGGGGGTGCGCGCAATAACCAT  
GTGAGGATTAACGGGGGCTTAACCGATTGTGAAAATCCCCTTAGAAGTGTGCGGTAAACA  
ACCCCAACTCCCCTATGGTGCCGACCCCACTGCCTCACTGTACCTGCCCCG

Sequence 751

CGCGGAGCTCCCCGCGGTGCGCCGCCCGACNTACATGNNTTCGGNTAATCNGCCAGAAA  
AATTACATTAGGGTAACAGGCTAGAACAGTCTGACTTTTCTTGTTTTCTATCCCTTGCT  
TTCTTGATTAGAATGAATAGGAGGTGGGTCTGGATATAGCAGCTGGAAACCTGTGTTCCA  
TGAGTGATGGGGAAGAGAGGGAGGGAATAGGTTCTCTGATTTTGGCATTTCCTAAGAC  
CTGATGCCACCTTGTGAGAGAATGCGATGACTACTTTTGTTCTTNCCTTNTCCCTTTT  
TCTCCAATATAAAATNGTTTTCTCTTTCAGAACTGCAGAAGTGCATTTTGGTTCTTTGA  
CCACTTTTGATGTTGTTAATTTAGCTGAATACCTAAGTGAACATTTTGTGTCAAAANCCC  
CTTNGTTTANGAAATNCAGNTGGTCTAGTCACCCCTACATTTTCTGCCTCATAATTGGCC  
CTAAGCCCT

Sequence 752

CCGCGGTGGCGGGCCGAGGTACTTCTTTTGGAGTCCCACTGCAGAAGCACAGTGGCCAAA  
AAAGGAGAGCTGAGAATCCTGCTCTTATTATTTCTGGCCAGACCCACCCAAATCATCTTA  
TCCCAGCTTTTTATTTTGAAAATTTCAACCCTACAAGAGAAATTTGAACACCCATTG  
TACCTGCCCCG

Sequence 753

CGCCCGGGCAGGTACGCGGGGACACATTGAGAGGTGAGCCAGAGGGGGTAAAGTGGACT  
GGGGAGAACTTCGGAGGATGTTTCATGTCCAGGAGCAGCCCCACGCCCTGTATGGTCGGTG  
TCTAGAGCCTCACAGCAACTAAGACCAACCCAGCTCTCAGAAGAAGGAATGTCAAAATGT  
CATGTTCAATTTTACATTGAGTGCCTGGAATCTTTCTTCACAATTGAAATGAAATGTGC  
TGAAGGAGGTGAATCCATGCATTAATCTTCAGCTCACAAGGAAATACTACATAAGAAGC  
AANGACCACAGACTCAAGACGGACATAATTGGATTTTTTTGCCATGGCCTGGAAAGAAA  
GGTCCT

Sequence 754

CGAGGTACCTCAAGAAAACCTTTATCAGATGCGTGCCAGGTGCCTGACATGATTCTAGATG  
CTGAGGATGTAGCAGTTAGCCAAAGGGATATAACTCTTGCTCTCATGCAGTTTATATTCT  
AATTTGGATATTCTAAATATTTTCATGTAGAATGTGAAATAATACCACAATTAAGATATCA  
CATAAGAAAGATACTTTCAGAGCTTCTCTATTTAATAATTTTCATGTAGGAAAAGAAGGTC  
TCCTTAGTGTATCTTATCTTTCAGACCTTTATATGTAATAACATGATTTTTCTTAATTTA  
GAATTAACAGTTTCTCTAGCATGTAAAGAAAAAACTGGACCTGTGTTTTGGAAATCAAGA  
CCTAAGGTTCAAATCAAGGACCATAAACCCNACCATTAAAGGTTAGGGGG

Sequence 755

AGGTACCTGCCACCACACCTGGCTAATTTTTGTATTTTCAGTAGAGATGGGGTTTCACCA  
TGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCAGGTGATCCGCCCCGCTCGGCCCTCCTA  
AAGTGTCTGGGATTACAGGTGTGAGCCACCACGACCAGCCAGAGGACACTTCTTAACAAA  
ATATTCCCTTTAGGGTAAGATCTTTCCTTAGAAAAGTTATTCATGAATATTTCTGGTTT  
CTAGCTAAAAATAAGCTTATCATATTTATCAAAATATTTCAATTTAACTCTGAAGATAT  
TATCACTTGGAATAAAGTTTGTAAAAATTTGGAAGAAATGCACAAGTTATATTTTGAAA  
ACAGTTTTGAAAAGGAGCTATATTTTATTCATATAAATATT

Sequence 756

CGGGCAGGTACGCGGGGAAAGGCCCTGAGGAAAACAAACCCCACTGGGAAGCCTGAGAA  
CACTTAGCCTTCATGAGTGTCCCCACCATGGCCTGGATGATGCTTCTCCTCGGACTCCTT

Table 2

GCTTATGGA

Sequence 757

CGCCCGGGCAGGTACCTTTCTTTCCGGGCCATGGCAAAAAAATCCAATTATGTCCGTCT  
TGAGTCTGTGGTCTTGCTTCTTATGTAGTATTTCTTTGTGAGCTGAAGATTAATGCATG  
GATTCACCTCCTTCAGCACATTTCAATTTCAATTGTGAAGAAAAGATTCCAGGCACTGAAT  
GTAAAATTGAACATGACATTTTGACATTCCTTCTCTGAGAGCTGGGTGGTCTTAGTTG  
CTGTGAGGCTCTAGACACCGACCATACAGGGCGTGGGACTGCTCCTGGACATGAACATCC  
TCCGAAGTTCTCCCCAGTCCACTTTACCCGCTCTGGGCTCACCTCTGAATGGGTCTCTTT  
GTCCACACAGGCAGAGATTGCTACATCTGGAACCTGGCTCCTCCAGCTTGAAGTAACC  
ATGAAGATGTGGTTGGGGTGGGGTGGGAAACC

Sequence 758

CCCCGCGGTGGCGGCCGAGGTACCCAAAAGAGCATCATCGAGTATGGAAAGTCTTTCAGG  
ACACGCCTTCAGATGTGTAATCTTAGGAGGAATCCTAATTCCTTAGTATGCCAGGCCTC  
CAGAGTCAAGCAAATGTTTGAAATTNCTTATGAGAGATTNCTCCACTTTAGGGGCTTTTA  
CATTTATGTAATAACACCTTTAAATTCTCTTCTGCCATTTAAATTCTCCGTGTCTCTG  
CCCG

Sequence 759

CCGCGGTGGCGGCCCGCCGGGCAGGTACGCGGGGGGACTTACAAGATGGATAGGACCTG  
GTGGCAGCTGTCTTGAGGAAGCCAGAGCCTGGAGAGACAGATCTCATGTTATAGCAGAG  
TACCT

Sequence 760

CCGCGGTGGCGGCCGGGGGCCATTGAGACTGCCATGGAAGACTTGAAAGGTCACGTAGCT  
GAGACTTCTGGAGAGACCATTCAAGGCTTCTGGCTCTTGACAAAGATAGACCACTGGAAC  
AATGAGAAGGAGAGAATTCTACTGGTCACAGACAAGACTCTCTTGATCTGCAAATACGAC  
TTCATCATGCTGAGTTGTGTGACGCTGCAGCGGATTCTCTGAGCGCTGTCTATCGCATC  
TGCTTGGGCAAGTTTACCTTCCCTGGGATGTCCCTGGACAAGAGACAAGGAGAAGGCCTT  
AGGATCTACTGGGGGAGTCCGGAAGAGCAGTCTCTTCTGTCCCGCTGGAACCCATGGTCC  
ACTGAAAGTTCTTATGCTACTTTCACTGAGCATCCTATGAAATCACCAAGTGAGAAATT  
CCTTGAAATTTGCAAGTTGNCTGGGGTCAATGTCTAAGCTTGNTCCACTANTCCAGAATGC  
CCCCAAGAATTCAACTGGATCTTGAAA

Sequence 761

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGAGCCCTACCTCCAGAGTCAAGTCCC  
ATGTCCTACCTCAATGCCATGCCATATAAAGGGGGTAGCACTGTGCTTGACACACCATCCA  
ATCTCCTCTCTTTGCCTGAAGCTTTAGATTCCCTTTGATTGAGGGTTCTTTGTTGT  
GGCTTGAGTTGGCCTCTGAGGTCTCTTGTGCTTAAAGATTCCATGATTTATGGCATT  
ATGTAAACATTGAGGACACACTCAGCTCTGCACAGGACAGANAGGAAGGAGGAGATACAG  
GCTGGCATGGTCTCTAATTCGAAGACGGTAACAATAATGTTAGTGGGGGAGGCAACACAT  
CCAGATCAGCTGTNCTCTGCTTCTTCTGTTATCCTGAAACACCCTTAGGCCATGACTGC  
AACTCAGCCGACAAGATTGCTCCTGCATCTGGCTTTGTGAAGGGATTNGAAAGGATG  
G

Sequence 762

TATNGGGCGAATTGGANCTCCCCGCGGTGGCGGCCGGGGGCCATTGAGACTGCCATGGAA  
GACTTGAAAGGTCACCTAGCTGATACTTCTGGAGAGACCATTCAAGGCTTCTGGCTCTTG  
ACAAAGATAGACCACTGGAACAATGAGAAGGAGAGAATTCTACTGGCCAGACAAGACTCT  
CTTGATCTGCAAATACGACTTCATCATGCTGAGTTGTGTGACGCTGCAGCGGATTCTCT  
GAGCGCTGTCTATCGNATCTGCCTGGGCAAGTTACCTTCCCTGGGATGTCCCTGGACAA  
GAGACAAGGAGAAGGCCTTANGATCTACTGGGGGAGTTCGGAGGAGCAGTCNCTTTNTGT  
NCCGCTGGACCCATGCTCCACTGAAGTTCCTTATG

Sequence 763

Table 2

CGAGGTACAAGGCTGCCCTTTCAGAACAAACCCAGGACGTTCAATTATAAAATAGCGAACT  
GGCCTTCCAGCACTTGATGGGAATGCTGAATAATGAAAATGTGGTGTGAAATGTCTCGAA  
TATTTATATTTTACATAACAAGAGCAGGGATTCCAATAGGCTTTGAATTTTAGAGAAATT  
ACAATGAGTAATTTTGTCTGAGATTTTAGAATATGATGCTAGTTTGTAGCAGGGCA  
AAAGGCCAAAAGTCTCCAGAAAGCAACTATAATGTGTTTGAATTATAATAAAGATTTAGT  
GTCCCAAAACCATTTTTTCAAAGCCAGGAATAGGCCAGGTACCTGCCCC

Sequence 764

GGGACACATTGAGAGGTGAGCCCAGAGCGGGTAAAGTGGACTGGGGAGAACTTCGGAGGA  
TGTTTCATGTCCAGGAGCAGCCCCACGCCCTGTATGGTCCGGTGTCTAGAGCCTCACAGCAA  
CTAAGACCAACCCAGCTCTCAGAAGAAGGAATGTCAAAATGTCATGTTCAATTTTACATT  
CAGTGCCTGGAATCTTTTCTCACAATTGAAATGAAATGTGCTGAAGGAGGTGAATCCAT  
GCATTAATCTTCAGCTCACAAGGAAATACTACATAAGAAGCAAGACCACAGACTCAAGA  
CGGACATAATTGGATTTTTTTTGGCATGGCCTGGAAAGAAAGGTACCTGCCCC

Sequence 765

AGGTACTCACTAGCCTACACCTATGCAATGTGATATAGAAAGATAGAGTTTCATTTTCAT  
TCAAATTTATATTCCTTTTCTCAATAGTGATGTTGAAATTCACATAATATGCTTATCGGA  
GATACGTATTCTTCATTTTGTAGCTGTATTGACTCAGTTTGTAGTACATAACTCAATTTT  
TTCAAAAAACAATTTTAAACACATAGTAAATTGAATCATAAACCTATAAGTATTACTAG  
CCTTTTAACATTGNTTGATTTCCCATGCTTGCTTGTTGGGTGGAGCAGTTAAATTTTCAA  
CATGAGCACAAAGGATACNGTTAGAAAATTCTACTTTAAAAATATTATTCAAGGCCGGGC  
ACAGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGTGAGGCAGGTGG

Sequence 766

CCGCGGTGGCGGTTTTTTTTCCCCCTTGTAATTTCTATACATGTCAAAGGCTACCAACT  
CATTTTTATTTAGAGTTTGAGATTTGATTTGAAAAATATACTGCAGCCAGCTATATGAAA  
AACATAAGAGGATATTGTTGACTTTTGATGAAGGGAAGAAAGAACAAAGGTAGAGCTGCCT  
AGCCATGAAGAACGCCAGGGTTTTTGTAAACCCCTGGTGTGCTTTGCACGCAGAAGGCACA  
CACTTAAATTGGCATGGCTCACTTTTTTACTGTGCCTTTGCTGAGCTTGCTGCAGGCTG  
AGTGCCTGTTAGAGGAGTGCAGGGCTGTGTTCTGGCCATCCCTGCCTGCTCAGGCCTCT  
CCTGCTCCTTTGTGGATCGCCAGGTCTCTGCTGCTTCTGGTGTGCTGCTGCTGCTGCTGCT  
CTTGACATTTTTCCCGTCTGTAATTTGATTGACAGTTACAGACAAGGAAGGGGACTGAAA  
TTCTTACCGTTTGTGACTTNCTAAACNGGAAAGGAAATTTGGTGAATGAGAANGGGAAA  
AC

Sequence 767

CCGGGCAGGTCCGGGCAGGTACTTTGTTGGGAATTAAGGATGATGATGCAGATCTGAGTC  
AGGCTCTTTGTCTGGCCATCTCCGTGTCAGAGATCCTTCAAGCGAATCAGCTACAAGGGG  
AAGGAGTCCGGTCTTTGTGGTGGATTGCCGTCTGCAGAACAAATAATGCTGGGCATTT  
ATCAACTGCTTTCCACTTAGATTACAGACCTGATGCTTCAGAAATCCATCTGAGTTGCACA  
GTCAGTAAAATCC

Sequence 768

CCGGGCAGGTACCAGAGGAGGAGATGGACGATCAGAGCCATGCACCTGTTTCTGCACCC  
CCTGCGCACTGGTTCTATGGCCACAAGGAGTCTTACCCAGTAAAGAGTTTGAGGTGTAT  
CCTGAGCTGATGGAAAAATACCTATGTGCCGTTCCCTTGTTGGGTGGACCCTTTACGATG  
TTCTTCAATATCCATGACCCAGACTATGTCAAGATTCTCCTGAAAAGACAAGATCCCAAA  
AGTGCTGTTAGCCACAAAATCCTTGAATCCTGGGTGGTTCGAGGACTTGTGACCCTGGAT  
GGTTCTAAATGGAAAAAGCACCCGCCAGATTGTGAAACCTGGCTTCAACATCAGCATTCT  
GAAAATATTCATCACCATGATGTCTAAGAGTGTTCGGATGATGCTGAACAAATGGGAGGA  
ACACATTGCCCCAAAACCTACGCTCTGGAGCTCTTCAACATGTCTCCCTGATGACCCTGGA  
CAGCATCATGAAGTGTGCCTTCAGCCACCAGNGCAGCATTGAGTTTGGACAAGTACCTT

Sequence 769

Table 2

CGGGCAGGTACAGCAAAACCCACCTGTGTAAACACACACAGCAAAGTGATGTAAGAAGTT  
TCCATATAAAGGGCTGCAGTATGGAGAGGTAATGTGCAGGCTGGTTTGCGGCTGTAGGGG  
CCACCTTGTGCAGCTCTCCACTGATATGGTACCT

Sequence 770

AGGTACAAGTTGTCTTTATGCTGCGAGATAAGTCCTCTCTTGGTTTGAGCTCCACCTTT  
TCAGTGAACCTCTTACATTTTGGGGATCTGCTCTTGTAAAGGACATCCTTTCTGGTGAGT  
ATTCCTTTGGTTAATTTTGGTTTGGTTATTTGTGCATGAATTCAATCTCATTAGGAAAC  
AAGTTAAGTTGAATAGACCAACTAGTGAATTAATCCGTCACCAAAATATATGTTTTGGC  
ATTTACCTGTTTATTTGAACTCTTTGTAAGAAATGTAAACCTGTAATGATAATCTCTG  
CTTTGTAAGGATATCTCCCTCTCTGACACCTAAACACTAGATGCTTTCACAAAGCAAAA  
GGAAGAGACCTAAATCTATCTATCTGTGTAACTCACCTTGACCATTTCATTTTGAAGG  
CTTCCTATATATGCTTTTTTTCATCTCAACAAATAAGTGGTGTAAAGTTCTGTGCCTCG  
GCCCCTCTAGAAGTAGTG

Sequence 771

CCGCGGTGGCGGCCGAGGTACGCGGGGACATTTCAGAGGTGAGCCCAGAGCGGGTAAAGTG  
GACTGGGGAGAAGCTTCGGAGGATGTTTCATGTCCAGGAGCAGCCCCACGCCCTGTATGGTC  
GGTGTCTAGAGCCTCACAGCAACTAAGACCAACCCAGCTCTCAGAAGAAGGAATGTCAA  
ATGTCATGTTCAATTTTACATTTCAGTGCCTGGAATCTTTTCTTCACAATTGAAATGAAAT  
GTGCTGAAGGAGGTGAATCCATGCATTAATCTTCAGCTCACAAAGGAAATACTACATAAG  
AAGCAAGACCACAGACTCAAGACGGACATAATTGGATTTTTTTGCCATGGCCTGGAA

Sequence 772

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACAGAACTTAAACACCACTA  
TTTGTGAGATGAAAAAAGCATATATAGGAAGCCTTCAAAATGAAATGGTCAAGGGTGA  
GTTTACACAGATAGATAGATTTAGGTCTCTTCTTTTGGTTTGTGAAAGCATCTAGTGT  
TTAGGTGTGAGAGAGGAGATATCCTTACAAAGCAGAGATTATCATTACAGGTTTACATT  
TCTTACAAAGAGTTTCAAAATAAACAGGTAAATGCCAAAACATATATTTTGGTGACGGA  
TTAATTCAGTAGTTGGTCTATTCAACTTAACTTGTTTCCTAATGAGATTAAATTCATGCA  
CAAATAACCAAAACCAAAAATTAACCAAAAGAATACTCACCAGAAAGGATGTCCTTTACA  
AGAGCAGATCCCCCAAAATGTAAGAGTTCACTGAAAAGGTGGGAGCTCAAACCAAGAGAG  
GACTTATCTCGCAGCATAAAGACAACCTGTACCTCGGC

Sequence 773

CCGCGGTGGCGGCCGAGGTACGCGGGGACTTCGGAGGATGTTTCATGTCCAGGAGCAGCCC  
CACGCCCTGTATGGTCGGTGTCTAGAGCCTCACAGCAACTAAGACCAACCCAGCTCTCAG  
AAGAAGGAATGTCAAAATGTCATGTTCAATTTTACATTTCAGTGCCTGGAATCTTTCTTC  
ACAATTGAAATGAAATGTGCTGAAGGAGGTGAATCCATGCATTAATCTTCAGCTCACAAA  
GGAAATACTACATAAGAAAGCAAGACCACAGACTCAAGACGGACATAATTGGATTTTTTT  
ACCATGGCCTGGAAAGAAAGGTACCTGCCCG

Sequence 774

AGGTACGGGAGGTGATATGAGCAAAATTAAGTATGCCTCTTACTCATGTTTCCCTGTCT  
CCAATTTTCTTCTCAGAGGCAACCTCTCTAACACATTTTGTGTTTAAATATATTTTT  
GCATGAACAAATTACATGTGTATTTGTATATATGCATATATATTTTCTGACTTTTTCTCT  
TCTTTCAAAGAATTATTAGTGATATTCTAAGCTCCAGTAACACACAGGGAAAGGTGGCTT  
GCTAATAGTTTTTTTGTGTAATTTTTTGAGACTGGGGCTTGCTCTGTTGCCAGGCTGGA  
GTGCAGTGGCACGATCACAAGCTCACTGCAGCCTCTATCTTACGGGCTACAGTCAAGCCT  
CCCACCTTGGCCTCCCGAGAAGCTGGGACTACAGGCATGTACCTGCCG

Sequence 775

CCGGGCAGGTACTGTGTTTCTCCACCTGACCTAGAAAACCTTGATTCTGAAAAGCCTCA  
CCCTAACTTTGCCACAACCTGGCGATCCATCCATACTGTTTCACAGCCCTCAGGAGAGACT  
GGATAATTATAACACACCTTGCTTTCTTCATCATTTCCCTTTTCCCAAGGGAACATAG

Table 2

CTGCACTGAGAACACCAATCTCTCAACCACACCCTATCCCAACCCCTGTGGAAAATATAG  
TAGCTACCTCACCAATGGGAGTTGAGGGAATGAAGACTCATGTCTTCTGGGATCTGGGTG  
AAGCCAGGTCAGCCATTCTTCAGACTTGACAGTACCT

Sequence 776

AGGTACATCCCCTGGCCATAGGAAGCACCTATAATATTAGTAGTTATCATTACTATTTTT  
TTGCCTGTGTGCGAAAGTCATTAGGAAAATCATGCCTATCTACGGCCCATCTGGGTCTT  
CAGAAATGTTGACACAGACATCCACTTTTGCCGTTGTGTGCTAATGGCAGGAGCTTGCCT  
GGCTTCCTGCTGTGCCACATGCTGCTCTTGAGGAATGATGATAACAGGTACCTGCCCCG

Sequence 777

CGAGGTACGCGGGGGAGTTTCTAAGCCCCCGCTGCGGTCTGAGGCACCGGCTGAACCAT  
GTCGGAGATCCTGTGCCAGTGGCTCAACAAGGAGTTGAAGGTGTCCCGGACCGTGAGTCC  
CAAGTCATTTGCAAAGGCATTTTCCAGTGGCTATCTACTTGGAGAAGTTCTACACAAGTT  
TGAACCTCAGGATGATTTTTCAGAAATTTTGGACAGCAGGGTTTCAAGTGCCAAACTTAA  
TAATTTTTCTCGCTTGGAGCCAACACTTACCTTCTGGGTGTGCAGTTTGATCAGAATGT  
GGCCCATGGCATCATCACAGAAAAGCCTGGGGTGGCAACAAAGCTGTTATATCAATTGTA  
CCTGCCCCG

Sequence 778

TAATCAGGTTGTGCCAGAGGAGGAGATGGACGATCAGAGCCATGCACCTGTTTCCTGCAC  
CCCCTGCGCACTGGTTCTATGGCCACAAGGAGTCTTACCCAGTAAAAGAGTTTGAGGTGT  
ATCCTGAGCTGATGGAAAATACCTATGTGCCGTTCCCTTGTGGGTGGACCCTTTACGAT  
GTTCTTCAATATCCATGACCCAGACTATGTCAAGATTCTCCTGAAAAGACAAGGTAAAAA  
CCAAGAGGGGCTCACAGTACCT

Sequence 779

AGGTACGGGAGGTGATATGAGCAAATTTAAGTATGCCTCTTACTCATGTTTCCCTGTCCT  
CCAATTTTCTTCTCAGAGGCAACCTCTTAACACATTTTGTGTTAAATATATTTTTT  
GCATGAACAAATATACATGTGTATTTGTATATATGCATATATTTTTCTGACTTTTTTCC  
TTCTTTCAAAGAATTATTAGTGATTTCTAAGCTCCAGTAACACACAGGGAAAGGTGGCT  
TGCTAATAGTTTTTTTGTGTAATTTTTTGAGACTGGGGCTTGCTCTGTTGCCAGGCTGG  
AGTGCACTGGCAGCATCACAGCTCACTGCAGCCTCTATCTTACGGGCTACAGTCAGCCTC  
CCACCTTGGCCTCCCGAGAAGCTGGGACTACAGGCATGTACCTGCCCCG

Sequence 780

CGAGGTACACACTAGCTGATAAGACACTGTTGCCATAATGTCTATTTATTGGATCAGCA  
ATTTATAAGTCCCACATTCTCATGCCACATAGCTCTACACAGCTGCAAAAATATACCATA  
GCTTGCAGGTGATCATTGGTTTGATAAAAGATATTGAGTCGCTCATCTTGTGAAAGTGAT  
CTTTGATATAAGAGGAGCATCAGCGGGGAAGCTCACATGTCCCGTGGCTCACACACCAGA  
AGGTATTTGTGTCTTGTCTTGTCTGTCTGGCAGTCCATGGCAATGGCTTTTTCAGAGAG  
GCCTGTTTTGTGGTAACTGTGTGTACCTGCCCCG

Sequence 781

CCGGGCAGGTACCTGCTCAAGATGCCTGGCTGAGAGTGTGTGGGAGTCTGGTTGGAGCCC  
AGATTTTATATATNTNTATATTTTATTTAGCTNTGACCAAAAANTGAACATAAAAACTGN  
GTCATGGTAATTAATAACTAACAGATAATTTATCTAAATAAATCTTGATCTGACTAACAT  
TGGTCAACATGACGTGACTTTTTACTCCTTAGATGCACCTTGTGACATAAATAGAATCC  
TTCCCTTGCATTTTATAAATGGGAAACCAGAAGCACCNNGGAGATGAATTTGAGGGGAACC  
TNATCAAGTGGGGAGGACCTAAACTTGCAGCCCAGTCCCAACANTGCCAGGTGCGA

Sequence 782

AGGTACATTACCCTACGCTCCAAGCGCAGCAAGCCGGCCAATATCCGTGGCACCGTGAAG  
CCCAAGCGCAGGAAAAAGCGTGCACTGGCATCGGCTGCCCCAGGGCAGGAGGCTTTGGTC  
GGACCATCCCTTACCGCAGGAAGCGGCAAGGGAAGCTGATGCTGTAGCACCTGGGTACCT  
GCCCCG

Table 2

## Sequence 783

CGCCTCCATTGTTTTATTATTTTAAGCAGCAGAGAGATCTGCCTACTGTAGTATGTTTCGT  
TACAGCTTATATGGTAGAGGGGCCACAGCCCANATCAGGCAAACCCAANATGAGGCGATG  
TTGTAAAAATACTCTGAGGAATCCACAGAAATNTAAGAGCAGGAACACAGCACAGCTG  
GGCTTCCTGGTACCT

## Sequence 784

CCGCGGTGGCGGCCGCCCGGGCAGGTACAATAGATGGCAGGTTCTAAATCAACATCAGAG  
CAATGTTATGGTCCAGGAATGTGACATGGGTTGAATATCTTCTAACTGGACTTAGAAAAAC  
CAGAGATCTATAAACATGTTTGTGAATTCAACTTTCCTCCACCCTGTTTCTGCTACCAAG  
GGCACATTCCACGTTGATCTCTTGTATGCCGATCAACATGATTTTATTGCTTTTGTGCGC  
ACATTTTAAACACTGATTTTCACAGAGTTACAGTCCCCGTGGCCTCCCCACACCACAACC  
AAACAAATGCGCTTTTACTGCCTCAAGGAAGATGTAAGTAATTTACTTGTAAAAGTGAGC  
TGAGCTCTCAGGAGAAATTCAGCCTCATGCTTCGTTCTGATGGATTTCAGTTCTCAATCT  
GTCCGGGACAGGTCAATTAAAGATTAAAGTTGGAATTGAAAGTGAAACCTTCCAAGGCTC  
GTTTAGGTAGGGGCCAGACACCCTCCATCANGCCCAAACAAGGGGATGGGGAT

## Sequence 785

CGAGGTACCTTTCTTTCCAGGCCATGGCAAAAAAATCCAATTATGTCCGTCTTGAGTCT  
GTGGTCTTGCTTCTTATGTAGTATTTCTTTGTGAGCTGAAGATTAATGCATGGATTAC  
CTCCTTCAGCACATTTCAATTTCAATTGTGAAGAAAAGATTCCAGGCACTGAATGTAAAT  
TGAACATGACATTTGACATTCTTCTTCTGAGAGCTGGGTTGGTCTTAGTTGCTGTGAG  
GCTCTAGACACCGACCATCAGGGCGTGGGGCTGCTCCTGGGCATGAACATCCTCCGAAGT  
TCTCCCCAGTCCACTTTAC

## Sequence 786

ACGCTAGATCAACTGAGATGCAAAACCCATGTTACATCATGAGTGAGTCTTCTAACTCG  
GACAATGCAATCAACAAATCTAAGACCAAATTCGGTGGCACTGGCTCCAAAAA  
AAAAAAGTCCT

## Sequence 787

CCGCGGTGGCGGCCCGAGGTACAGAACTCTGCCAGCCAGCCATTTAATGTTGATTTCT  
TTACTTATATTTAAACTTCTAAATAATAAATACTACCATTACTGGGTGCTTCATTTATGT  
TGGACACTCTGCTAGGTGTTTGTATGGTATTTCAATTCATCTCCCTGTTGAAAGCTATA  
GATTAGGCAGAGAAGCTCAGAGAGGTAAAGTGAATTTCTGAGAACACAACTTCTAAATG  
GAATTGGGATTTGTGCTTAATTTAATCTGTCTGACTTTTCAGATCATCTTCAGTATGAA  
CAGAAGAAAATCCCTGAACACCTTTGAAATTTAAAGCAAATTAAGCAAATACTATGCCA  
TTAGAGTATATACATATGAATATGATCACTCCCTGTGAACTCTGCTGTATTCTCCTACC  
TCTAATGTGCCTCGCCTCTGCTTCATTGGGAAGTAAAAAACCATTTTACTACCTGGGAAT  
TGTGAAGCTATCTGGCCTT

## Sequence 788

CCGGCCCCGCCCGGGCAGGTACTGATAGCTGGGCAGTCTACTGAGACTTAACCTTGTGGTT  
AACTACTTGGAAAATACAGAATTGGCTAGTGAGCCACAGACCCATTTGAGGCCAAGCCAT  
ATGGCAAGACCTTTGGGAAATAGGTATCAAAAAGAGGTAATTTATCATGTGTCAGG  
CCATATGCCTTTGGCCACCCCTAGTAATGATGAGGCAGATGCCCTGGCTAAGGTCAGATG  
GTCAGAGTCAGCACCAACACAAGATGTGACCTTGTGGCTACACCGGAACTGGGACATGC  
AGGGGGTAAACTGATGCAACAATTCAATAAGTGTGGGGTCTGTCCTTCCAAGCAAGAC  
ATTTGTGAGGCTTGTGAGAAATGCCTGGCATGTGTTGAGACATATCCTAAAAAGAGGCAG  
CTGCCCCGTGTTATACAACAAGTAACAATAGGGTGAGTGCCCTTGACCAGGTGGGAAAGT  
AGACTACATCGGGCCGCTTGCCAAAGTCGCGAGGGTATACCGCATGCCACTAACGGCTTG  
TAGACATTGGNCACAGGCCTGTTGTTACCTACCCCTTGACAGGGGTGGGCCAAC

## Sequence 789

CCGGGCAGGTACCATATCAAGTGGAGAGCTGCAGCAAGGTGGCCCCCTACAGCCCCGAAAC

Table 2

CAGCCTGCACATTACCTCTCCATACTGCAGCCCTTTATATGAACTTCTTACATCACTT  
TGCTGTGTGTGTTTACCAGGTGGGTTTTGCTGTACCT

Sequence 790

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATGTGAGGACCGTCCAGG  
ATAGTTTTGAAATGAGAAATGAGAGCAGCATTTCTTGGTGTCTGAAAAATATATTATAC  
ATNTATTTAAATATTGAAGAAGTANNNGCTGTCTTGGTGGCTCACGCCTGTAATCCCAGCA  
CTTTGGGAAGCTGAGGCTGGTGGATCACCTGAGGTGAGGAGTTCGAGACCAGCCTGCCAA  
CATAGTGAAACCCCATCTCTACTAAAAATACAAATTAGCCGGGTGTGGTGGGTGCAT

Sequence 791

CCCCGCGGTGGCGGCCGAGGTACACACAGTTAACCACAAAACAGGCCTCTCTGAAAAAGC  
CATTGCCATGGACTGCCAGACAGACAATGACAAGACACAAATACCTTCTGGTGTGNGANC  
CACNNACATGTNANCTTCCCGCTGATGCTCCTCTTATATCAAAGTCACTTTCACAAGA  
TGAGCCGACTCAATATCTTTTATCAAACCAATGATCACCTGCAAGCTATGGTATATTTT  
GCAGCTGTGTAGAGCTATGTGGCATGAGAATGTGGGACTTATAAATTGCTGATCCAATAA  
ATAGACATTATGGGCAACAGTGTCTTATCAGCTAGTGTGTACCTGCCCGGGCCGGCCGCT  
CTAGAACTA

Sequence 792

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATGTGCACAACGTGCAGG  
TTTGTTACATATGTATACATGTGCCATGTTGGTGTGCTATTTTTGACTACTGGAAAGGG  
ATGTGTTNGTAANNAACATCTTTTTNNNANCANGTTTTCCATGATTGCTAAGTATTGTC  
TCCTCCCTTGAGAGTTTCAGTGGTGTGTTGCTACATTACTTCAGTCAGTATTTGCAGCA  
AATAACAGGAATAAGCTGAGAGAGAGAGTCACCTTCATCTCAGGGTTATTAATAAAAAACA  
TGAAATTGACCTTATTTGGGATGTTTTACTTCAGCTGAAGGTGAAGTTGNAAGATACT  
GCAAAGAATACACATCTTAAGAAATCATGTTAGAAGCAAGTAGCNTTAATAAGCCATCC  
ACTATAAACCCCAAAAGAAAACCTGATCTTCTGGGGAAAAATCAAAGATGCCCTCAAAG  
GACTTCAACTTCCTGAACAAAATGTATGTGCTAATTTTCGCGATCTTCTCCTATATTCA  
TGCCTGACAAGATTGCCATTNGTATTCTATTGACAGAAAAATGATGATTTTTGAAAGCTT  
TTCTTTCCCATATTTTCTTTTGNTGATANGNGNTTGTTCCTCAATCATTAGCAACNTGA  
GACCCTNGTGAGTGGGGGAGGCCATAATNCTTNCCCGGGCCNGCCNTNTAAAAACNN  
GGGNACCCCCCGGCTTNNAGGAATTNGANCTNAAAGCTATCNNANCCCCNCGNCCNCGAG  
GGGG

Sequence 793

CCGCGGTGGCGGCCGAGGTACTAACATCAATAAGTCGAGAAAATTATATTAAGTAAAGA  
AAACAAAATAATAGAGAATTTTATTAAACGTATTTCTAATGTTTCTTTCATGTTTGGAG  
AAAAGCTGCCACATAATTAAAAACAATTCTCCCTGTAAACTGATTGTCTTCCAATCTCA  
GGAGGTTTACATTAACAGGAATATAGAATAAGAAACAGGCCTATGGCCGGGCTCCGTGGC  
TCACGCCTGTAATCCCAACACTTTGGGATGCCGAGGCGGACGGATCACGAGGTGAGGAAA  
TCCAGACCATCCTGGCTAACACGGNAAAACCTAGTCTCTACTAAAAATACAAAAA  
AGAAAGAAAGAAAGAAAAAAGTCCTGCCCGGGCGGCCGCTCTAGAACTA

Sequence 794

GCGGTGGCGGCCGAGGTACCTTCTCAGCCAGCAGTTAGCCATTGTGGAGGTGCCAGGGGA  
GTTAATGCCCTTAGGAGCAACTCTTGGTCCTTGGAGGCAGGAGTCAGCACCCACTGAACG  
TCAGCATACATTTCCACCTTCCAGCCCTTCCAAGGGATGATCCTCAGAAGTGTGTTCTG  
CTGGGTTCTCCAAAGCTCTCAGTGAGGCCAGCTCCAGTTGCCCATAGTGGCAACCCAG  
CTCAACCATGCCCTCCTAACACCTTTTCTTCTTCCCTGACCTTTCTGCCTGCACTCAAG  
TCTTTTCTCAATTTGCAAAACCAGGATACACAATATTTAAGTATCTCCCAAACCTAAAT  
AAAGTGGAGTGCAAAAATTCAAAGAAAATTCAGGATGCATAGTAGTGTTTAAAGAACAA  
CATGGGGGCTTGTATGATATATTANACACTTGCTTNCCTTNCATGAAAAAAAAAAAA  
TGGAAA

Table 2

## Sequence 795

CCCGCGGTGGCGGCCGCGGGCAGGTACTGTTCTGGTCCCACTCAGAGATCTCTCGTAA  
GATGCAATCTATCAGGCAATGTCTACCACACACATGCGCGAGTGCGCGGCACACACG  
CACACACACACAGAGGAAGACAGACAAAACCTCAGACAGATTACATCACAGCAAAGTCAG  
ACTAGAAAAACCAGAGGAAACACAAGATACTTCTCATTTCTAACACCAACTCTCCCAAGT  
CACATCACAGAGTCAGCCAACCCAGAGACCACTGGCTCCTGTGGTTATTTGGGTTAAACA  
AGCANCATGATGCTCCCTCTTCAACTCTAACCAACAGAATTAACAATGACCCCTTCTCCA  
ACACATGATTTACACAGCCAACAAAAAGAGCCACAAGGGACAATATGGAGCAGGANTCCT  
CGCCGCTCTAAAACCTAAGTGGATCCCCCNGGCTTGCANGAAT

## Sequence 796

CCGCGGTGGCGGCCGAGGTACGCGGGGAGGGATTGCTCCCTGCATTGTGGGTGGGAGATT  
GGGTTGGGAAATGTAAAGCTCTCTTTCTTACCAAGTTTGTTAACATGGCNCCTCCAC  
CCCACCCCAACCACATCTTCGTGCTACTTCAAGCTGGGAGGAGCCAANTTCCAAATNTAN  
CCNAATTTTTNNCCNTGTTGGACAAAGAGACACATTNANAGGTTGAGCCAGAGGGGG  
TNAAGTGGACTGGGGAGAACTTCGGAGGATGTTTCATGTCCAGGAGCANCCCCACGCCCTG  
TATGGTGGTGTCTAGAGCCTCACAGCAACTAANACCAACCCAACTCTCATAAGAAGGA  
ATGTCAAATGTCATGTTCAATTTTACATTTTCANTGCCTTGGGAAATCTTTTCTTCACAA  
TTTGGAAATGGAAAT

## Sequence 797

CCGGGCAGGTACCTTTCTTTCCGGGCCATGGCAAAAAAATCCAATTATGTCCGTCTTGA  
GTCTGTGGTCTTGCTTCTATGTAGTATTTCTTTGTGAGCTGAAGATTAATGCATGGAT  
TCACCTCCTTCAGCACATTTCAATTTCAATTGTGAAGAAAAGATTCCNCGGCCCTTGAANT  
GTAAAAAATTGAACATTGACATTTTGACATTCCTTCTTCTGAGAGCTGGGTTGGTCTTAG  
TTGCTGTGAGGCTCTAGACACCGACCATACAGGGCGTGGGGCTGCTCCTGGACATGAACA  
TCCTCCGAAGTTCTCCCCAGTTCACCTTTACCCGCTCTGGGCTCACCTCTGAATGTGTCC  
CCGCGTACCT

## Sequence 798

CCGCGGTGGCGGCCGCCGCGGCAGGTACGCGGGGAGTGGCATCCTTTGAACTCACGGATC  
CAGTCATACTGAAGTTCCATCTACACCTGGGGTCTTCAGACCCAGGCTCTGGAAAAGAT  
CCTGTTACTTACAAGCAAAAGAAATTCTGCCTCTTACCCTCAGCATGTGAGTACCTCGGC  
CCGGTTTTAAACCTAGTNGNATCCCCCGGGGCTGCAGGAATTCANATATCAAAGCCTT  
ATCGATACNCGTCGACCTCTGAGGGGGGGGCCCGGTNCCCAGCTTTTNGTTCCCTTTAGT  
GAGG

## Sequence 799

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGCGGCATGGTACCCCAAAACCACGGGG  
CTGCAGCTCCAGCAATTGGGAAGGCCAAGTTTCTTGCACACTCCCAGAAAAGGGGCCA  
AGTCCATGGGGCTGANCACTGATNGACTGCAGACCTCACCACCACTGAACCTTGTAGGAT  
AAGGCCCACTNGCCTGGGGATTGNTTNTTGGAGGCCANCCCTAAGTNCCTTCTGAGTTCT  
CCAGCTGGGAGCAGCTCTACACTTNTCCGGCATGCAGCTTTCCAAAGAGAGAGGCAGTCC  
ACCTT

## Sequence 800

CCGCGGTGGCGGCCGCCGCGGCAGGTACAGTGGTGCAGTCATAGCTCATTGCAACCTTGA  
ACTTCAGGCTCAAGAGATCCTTTTGCCTTACTCAGCCTCCCAAGTAGCTGGGACTACAGG  
CATGTGCCACCATGCCAGCTAATTTTCATTTTAATTTTTGTAGAGACGGAGTTTGTCT  
ATGATGCCCGGGTTGATCTTGAACCTCTGGCTTCAAGTGATCCTTCTGCCTTGGCCTCCC  
AAAGTGCTAGCATTATAGGCATGAGTCACTGTGCCTGGCCTTGAATATTTTACATTGCG  
TTGTCACAAGTGAGCTGTGTCAATTTTGGTATATTTTAATTAAGGCAAGGTTTCTACTT  
TGATATTATTTAAATCCACACCCTTGATCTTACATCAAAATTTAAGAATCAGTCAGCT  
TTAAATATTTGCTTTTATTTCTTCTAGGAGCTGCTGTTTTGAGGATTCCTATTCTGTA



Table 2

TGGGGAAGTTGAAAAAGCTCGAAGAAAGGCTGTGACTGTTATGGTTTGGATAAAAGTGC  
AGTTCAAGCAACAAGTCAGCCNAACATGGATNACTGGCAGNAANANGTTTCCCCACACAT  
GTCAAAGATNGGGGCCACTGGGTNCCCGGCAGCTAACAAAANAAAAANAATNCTNGTNAN  
AAAGNNTNCCTGGAGTCCNTGTCTTANCGNAAGNTNCACTTTGTCTTTNATGCTGGAA  
CTTTTACANGCTNTNGCCNTNGGCCGGTNTAANAACCAAGTGGGNCCCCCGGGCTGCN  
AGGAAATTNGATTCAAATCTTNTNTAANCCCGNNNTACCCTTNAGGGGGG

Sequence 801

NGCGGNACGCCCCGGGCAGGTACAGTGAAGCTTTGACCTGAGGAGCTCTTCTGTAGGTGAA  
GAGTGGTTAACTATGGTTCCTGTGTGCCTGGGGCCCCCACTCCTAGGACTCATCCACCC  
CCTACCCAGAACTTACTAGTACCTN

Sequence 802

AGCTACTTGGGAGGCTGAGGTGGGATGACTGCTTGAGCCCAGGAGGTTGAGGCTGCACTG  
AGCCACAGTCACGCCACTGCACTCCAGCCTGGGTGACAGAGCAAGACCCTGTCTCTAGTT  
TTGTCCATCTGTCTTCATGGTCCTAGCTGAAAAGTATCTTTTAGATTCCCTATTTCTT  
CGACTTCCCTCCCCTAGAATATAAACTCCATGAGCTCCTTGCCACCCAACTCTCTGCAG  
TCTTCTGTACCT

Sequence 803

AGGTACAAGAAGGGCTGAGGCTTCTGTCTGAGTTGACCGTGACCTGTGGTTACAGCATTT  
TAGGACTTCGTAACAGAATGATCCACAGAGGTCAGCAGGCCCTTGAAAGAACGCTGAAGG  
AAACTTGCATACAAACAGTCTCAAGGAGGCAAACACATGCTTCAGCGCTGCCCGCTAC  
TGCCCG

Sequence 804

GCTCCACCCGCGGTGGCGGCAAGAGTAAAATCAAGGCTGGTAAAAGAACACAGCACGTTT  
CAAGCCTAAGCAGCTTAAGTGCAAAGTGCTCCGGGTGAAATGATGAGAGAGCAAGAGC  
ACAAAGAGGACCCTCTAAACAGAGCCAGTGACCATGTGAGCTGAGGGGGAGGGCTTCTC  
ACAGGGCAAACGGTACCT

Sequence 805

CCGGGCAGGTACTGGTGACTCACCATTCTGCCAGCGGCCACTTTGCACTGGGCACCAGCA  
CATACCAGCCCCCATCAGGAAATGTGCACAGTCCATCTCATCTTGTTCATCTTCATTTT  
ATTAATGAGGAAGTGAAGTCCAAGAAGGTTCAATCATTTGCTCAAGGACAAAGAAGTGC  
ATATCGACTCAAGATCTGAGCGACTCCAAAGCCCAAGCTCTGTGCCCCCGATAACACTAA  
AGGGCTCTGGAACCTTCCCTCACTGTGCCAAATTCTGGTCACCACACTTTAGGAAAGGTA  
CCT

Sequence 806

CTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGGAGACACATTAGAGGTGAGC  
CCAGAGCGGGTAAAGTGGACTGGGGAGAACTTCGGAGGATGTTTATGTCCAGGAGCAGCC  
CCACGCCCTGTATGGTCGGTGTCTAGAGCCTCACAGCACTAAGACCAACCCAGCTCTCAG  
AAGAAGGAATGTCAAAATGTCATGTTCAATTTTACATTCAGTGCCTGGAATCTTTTCTC  
ACAATTGAAATGAAATGTGCTGAAGGAGGTGAATCCATGCATTAATCTTCAGCTCACAAA  
GGAAATACTACATAAGAAGCAAGACCACAGACTCAAGACGGACATAATTGGATTTTTTT  
GCCATGGCCTGGAAAGAAAGGTACCT

Sequence 807

GCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATCGAATAGGCAAGAACACAGGCAGTA  
GGGCAGCTTTGACAGCCTCAGTAATTTCCAAGGTATTTTTTGACAGAAGTATCACAAGT  
CTTAAAGTGATTGCATCGAAAATTTCTGATTCATTTGGGTAAGTGATTATCTTTCCATTT  
GCCAAGGACCTGTTGTATGTATAGTGGTAAACAATTTGTATATTATAAGGGAGATATG  
AGGTANAACGTAAGACTTCTTTGGGGAGCCGACAGTACCT

Sequence 808

GCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATCGAATAGGCAAGAACACAGGCAGTA

Table 2

GGGCAGCTTTGACAGCCTCAGTAATTTCCAAGGGTATTTTTGACAGAAGTATCACAAGT  
CTTAAAGTGATTGCATCGAAAATTTCTGATTCATTTGGGTAAGTGATTATCTTTCCATTT  
GCCAAGGACCTGTNGTATGTATAGTGGGTAACAATTTGTATATTTATAAGGGAGATAT  
GAGGTAAAAACGTAAGACTTCTTTGGGGAGCCGACAGTACCTCGGC

Sequence 809

CCGGGCAGGTNCNCNNGGGATNGTCACAATGAGATGTCTTGACCCTGCCACTCTNNCCAT  
TTGNCTGAATTTCTANTATCACTCANGTGATCTGGAATCTAATTCTCACCCNNAACCTTAA  
TTGCATGAAAACTAANATATATAGTNGNTAGCTTTCCACCATTTGCATCTTGCANGAAA  
TGTCNGAAATATATTGGAGTGGC

Sequence 810

CCGGGCAGGTACGCGGGGGACTTACAAGATGGATAGGACCTGGTGGCAGCTGTCCTTCAG  
GAAGCCAGAGCCTGGAGAGACAGATCTCATGTTATAGCANAGTACCT

Sequence 811

TCCTATCGACTTACTTAGGGCNAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGG  
GACACATTCAGAGGTGAGCCCAGAGCGGGTAAAGTGGACTGGGGAGAACTTCGGAGGATG  
TTCATGTCCAGGAGCAGCCCCACGCCCTGTATGGTGGTGTCTAGAGCCTCACAGCAACT  
AAGACCAACCCAGCTCTCAGAAGAAGGAATGTCAAAATGTCATGTTCAATTTTACATTCA  
GTGCCTGGAATCTTTTCTTCACAATTGAAATGAAATGACTGAAGGAGGTGAATCCATGC  
ATTAATCTTCAGCTCACAAGGAAATACTACATAAGAAGCAAGACCACAGACTCAAGACG  
GACATAATTGGATTTTTTTGCCATGGCCTGGAAAGAAAGGTACCTGCCCCG

Sequence 812

AGGTACCCCTTTCACGGCATAGCTTCCTTGAGGGCTGGGGTAAGAAACCCACAGTTCTTC  
TGTTTCTGCTGGATTTTTCCCTGTGGTTAATCCTTAACCAAGAGGCACTTCTCAATCAAC  
TCTTCTTCCAAAAGAAGGACCCAGATCAGTATCTTTGGGTGGCTTATGCTTATTTTAAAA  
TAATATCCAGTTGCTGCTTGTGACGAAGTCCAGACTCAAGAGAGAATGAGCATCATTC  
AGATAATGCCTCACTGAAAAAAAAAANCAGCAGNTGAACCCACACCTCCTACTCTCCAT  
GAAATTAATTGCCTATCCACCTTAAAAAACATGTNACCTGCCCCGNTTACNTGCC

Sequence 813

AGGTACCAACCTGGTCTCCAAAGTCCCTCTGGGAATTTCCACAATACCACAGGATCTTCAT  
TTTCAGAGGCATGACATTTCACTTTCAACACCAAGTCAAAGGTTCTGTCTGGATTTGCC  
TCTGACCAGNTTCTGCTTGTNCTCCCTTATCTTTGTTCTCAATCTGCCAGACATTGTAN  
AACTTAAACAGTCCTTGGAGTTCAGAACAAAGAATAATTGANGCAGAGTGTACCAACA  
GATGGTAATCAGTGGAGTCAAATTTTCTCAGAGATTCTTTGAGGATTCTCCTTTGGACT  
TCAAGAAAGAGTGCTGTCCCGCTACCTGCCCCG

Sequence 814

AGGTACACAGGTAACCACATTTAGATGGACTGGGATGTTGCCACACATACAAGCATTGAT  
AACTGGCTTCTCATTACCTGAATACATTCTTCTGTCTAGAGCAACAGACTCAGCTATGCTT  
CTGGCAAAATTGTTCTTAATTCTCTATTGATTAATTTATTCGGTAAGTATTTATTGGGTA  
TTTTCTGTCTGAAAAGTGCGATTCCAGGGGCTTTATGTGTCTCTGGGGTGGGGGTGTTAT  
ATAAATACTTATAATACTGTATCCATACTCTTGAAGCTTAGTTGGGAAGGCAAGGCAT  
GCAATAAGGAACACAAGAATTTTAAGTCATTCCACAACCATCTGTTGAATGGCTGCTATT  
GTTAGTATCGTGGGTGGAACTGGAGAAAGCAAAAGATGACTATAATAGGATCTCTTTTC  
TGGGAGATGCCACAGTGGACACCGTAGTTATATGAATGAATGAATAAAGGGACCTCCAG  
AATAGTTCTTATACATTGATGCTCTNNGGGGCCCAATGCCAGAATTCTTGATTGAAGAAA  
ACCAAATTAACCTCTTTTTTTGGCTTGCTTCCCTTGAAAAAGGGGGTAAATTTGGCCA  
CCTCAAGGANGGTTTTTTGG

Sequence 815

AGGTACAAGGTCTGAGGAGAAGGTTGAGGTCTCCCAAGACTTCTCTAGAACACTTGGTG  
AGAGGCGCCATGAGGACAGGTGATGCTTGGGCTTATAGCTCTGACTCAGGACATCACTGC

Table 2

TCACAGCCTGAAGCCCACATCCAAAACATGTCATGCTGGCAATTGAAGGGGTAGCAG  
AGCCCAAAAGTCCAGAGGGGCTCAGCACAGGGAGCAGATGTCTGTGAGCAGGAGAGACAG  
CGGCTGTAGGGATCGATGAGACTTGGTAAGCATGATGTGCTCTTGTGAGCATAGCATCTT  
TGAGCTCACACAATAATTGATGTAGAATTGTCCATTTTCAGTAAGGAGTTCCACATCCAC  
TATCTTCCACGATTCTCACAAGGGCCTTGAGTAAATATTACCTGCATGTTATGGGGTGAG  
AAAGGGGTAGTTTAGAGAGCTGAANGGATTTGGTGAAGGCCACATAATGAGTAAGCCTGA  
AATCAAGGACCAGACCCCCAGGCTTCTAAATGTTAGTCTTGGGCTCCTTGGTTCATGGGA  
CTATTATCATCCCTTGACCTGCCCCGGGGCGGGCCGCTCTAAN

Sequence 816

AGGTACTCACATGCTGAGGGTAAGAGGCAGAATTTCTTTTGCTTGTAAGTAACAGGATCT  
TTTCCAGAGCCTGGGTCTG.AAGACCCCAGGTGTAGATGGAATTCAGTTATGACTGGATC  
CGTGAGTTCAAAGGATGCCACTCCCCGCGTACCTGCCCC

Sequence 817

CCGGGCAGGTACGCGGGGGGACTTACAAGATGGATAGGACCTGGTGGCAGCTGTCCTTGA  
GGAAGCCAGAGCCTGGAGAGACAGATCTCATGTTATAGCAGAGTACCT

Sequence 818

CCGGGCAGGTACAAACCTTTGCCCTTCTCAAACCTTTGCTAGATAAAATCATATCAGGTT  
TTCACTTACATTTAAATCCTTATTTAGGCATGTGTGCAGCCTTAATTTCCATATTTTAAG  
CTATATTGCAGGTTACTTATAGCAATGCTAGAATTCAGTGAAATATAAATAACACTTTTT  
GAGACCCACTGAAGATTGTAAACAAATGCTTAAAAATTGCAAAAGTGTAAGTAGGCAGAT  
GTTAATAGCAGTAGCAATCATGCATGTATTTTATTAAAAATTAATAATCAGTTTATATGGA  
AATCTGCAATGTGCTAAAGACTTTAAAGGACATCTTCATCAGAGTTCTTTGTGACTTGG  
AGAGAGAACACCTTTGGAGAAACCACTGTACCT

Sequence 819

CCGGGCAGGTACAACCTGTGATCTGTCCCAACTTCCTTTTGCTTTTCAGACCCCCATCAGCC  
TTTAGCCAGGATCCTTATACATGCAGCAACGAAAGCATCCTATGAAGTCATTCTAATTAC  
GTTACCATCCAGCTCAGAAGTCACCAAGTGAAGTCCAGCTACCAACACAGACACTGGCT  
CCTCAGAGCAGAAGTATGCCTAATTCACAGGTAGAGGACTAGACAAAGGACATACTA  
GAAATGTGGCTGAATAACAGCACCAGAAAAGCAAGGCAGCTATAATCTCTCCCTAAATGG  
CCTAAAAAACAGTTTCTTTTCTAAATGGCTGCTAGTTTTTTGACGTGCTGCCTACAATAT  
AAAATACTCTCAAAAATACCAAGCTACGCAATATTTGTTTACACCTACCCAGGAATATT  
TCAGAGGTTAGAAACACTGGTGAAGGAGGGAGAAGGAGGGAGAGACTCATGATAAAGAAC  
AGGTTTCTAAAACCTAAAATAATACTACNAAAAAGAAATAACAAAAACAAATCAGTCTTA  
AGATAACGTGCCAGTAAGAAAAAAACAGATAAAATTATGACATATCAAACAGTAA

Sequence 820

AGGTACAGAACTNAAACACCACTATTTGTTTCGAGATGAAAAAAGCATATATAGGAAGCC  
TTCAAAATGAAATGGTCAAGGGTGAGTTTACACAGATAGATAGATTTAGGTCTCTTCTT  
TTGCTTTGTGAAAGCATCTAGTGTTTTAGGTGTCAGAGAGGGAGATATCCTTACAAAGCA  
GAGATTATCATTACAGGTTTACATTTCTTACAAAGAGTTTCAAAATAAACAGGTAAATGC  
CAAAAACATATATTTTGGTGACGGATTAATTCACNTAGTTGGNCTATTCAACTTAACCTT  
GTTTCCTAATGGAGATTAAATTCATGCACCAAATAACCCAATCCCAAAATTTAAACNCA  
TAAAGAAATACTTCACCCAGAAAGNGATGGNTCCTTTTACAAGAAGCAGGANCCCCCAA  
AAATGTAAAGAGTTCACTTGAANAAGGTGGGGAAGCTCAAAACCAAGGAGGAAGGACCTT  
TATTTTCGCANTCATAAAAGCCCAAACCTTTGTTACCNTCGGGCCCGCTTCTTAAGAACCT  
ANNTGGGATTCCCCCG

Sequence 821

AGGTACTCAAGCCACCTGCCTGTCATGGCCCCCAAAATGCTGGGATTGCAGGCCACCAT  
AACCGGTATCGGGGCAACTATCCTTCAGGGCTTCCTCCAGTAGGGCTCCCCAGGTTGGC  
CTTGAGGGCCACAATAAAAAATCTGACTTAGCTATACTCCTTCCCTGTCCCCAACACAG

Table 2

TTATTCTTGTGGATGAGGCAAATGGCAGCAGGACAGCTGGAGTATACCAGAGTTGACTCA  
TTTATTTTATGCATGCTTAGTGTGGCATCCCTGGGGACATGAAATTCAGTGAAATCCAG  
TCTTTGTGCTGGAGAAGCTCATAGATCTGTGGAGGAGGCAGATGCCACCCACTCACTGT  
ACCTGCCCCG

Sequence 822

CCGGGCAGGTACTGATATGCTGGGCAAGTCTACTGAGGCTTAACCTTGTGGTTAACTACT  
TGGAAAATACAGAATTGGCTAGTGAGCCACAGACCCATTTGAGGCCAAGCCATATGGCAA  
GACCTTTGGGAAATAGGTCATCAAAAAGAGGTANCTATTTATCATGTGTCANGCCATATG  
CCTTTGGCCACCCCTAGTAATGATGGGGCAGATGCCTTGGCTAAGGTCAGATGGTCAGAG  
TCAGCACCAACACANGATGTTGACCTTGTGGCTACACCGNAACTGGGACATGCAGGGGG  
TAAACTGATGCAACAATTCAATAAGTGTGGGGTCTGTCCCTTCCAAGCAAGACATTTT  
TGAGGCTTGTGAGAAATGCCTGGCATTGTGTTGAGACATATCCTAA

Sequence 823

AGGTACAAAGAAACCCTTTGCAGACAGCTCATTTATAGAGAGAAGCTAAGTATTTATTTA  
CTTGCTACTCAATTTAAAATACGACCATGGCAGGCAACCAACCAGGAGAAGAGCTAAAAG  
TTTGAAAGCACTGCCCTTTTCTCTACTATAGAAGTTACAGGGTCAAGCCTTGAAAAATTT  
CCACAAAATAAGGCTTTGCTAAACATATTTACCTTATCAGAAAGATTGTATCTCAAAAAA  
GTTACGTTTTTCTTCAGGCAAGACAAGAAAAAAGTGCCTGTCTAATCGACAGTACCTGCC  
CG

Sequence 824

AGGTACCTTTCCTAAAGTGTGGTGACCAGAATTTGGCACAGTGAGGGAAGGTTCCAGAGC  
CCTTTAGTGTTATCGGGGGCACAGAGCTTGGGCTTTGGAGTCGCTCAGATCTTGAGTTGA  
TATGCACTTCTTTGTCCTTGAGCAAATGATTGAACCTTCTTGGACTCTCAGTTCCTCATT  
AATAAAATGAAGATGAAACAAGATGAGATGGACTGTGCACATTTCTGATGGGGGCTGGT  
ATGTGCTGGTGCCAGTGCAAAGTGCCGCTGGCAGAATGGTGAGTCACCAGTACCTGCC  
CG

Sequence 825

AGGTACGCGGGGGAGAACTTCGGAGGATGTTTCATGTCCAGGAGCAGCCCCACGCCCTGTA  
TGGTCGGTGTCTANAGCCTCACAGCAACTAANACCAACCCAGCTCTCANAAGAAGGAATG  
TCAAAATGTCATGTTCAATTTTACATTCAGTGCCCTGGAATCTTTTCTCACAATTGAAAT  
GAAATGTGCTGAAGGAGGTGAATCCATGCATTAATCTTCAGCTCACAAAGGAAATACTAC  
ATAAGAAGCAAGACCACAGACTCAAGACGGACATAATTGGATTTTTTTGCCATGGCCTG  
GAAAGAAAGGTACCTGCCCCG

Sequence 826

CCGGGCAGGTACAGTGAAGCTTTGACCTGAGGGGCTCTTCTGTAGGTGAAGAGTGGTTAA  
CTATGGTTCCCTGTGTGCCTGGGGCCCCCACTCCTAGGACTCATCACCCCCTACCCAGA  
ACTTACTAGTACCT

Sequence 827

CCGGGCAGGTACTTCATGGTTACCATAGAAAGCAGCAACAGCAGCAGGTGCACGCAGTAA  
GTTACCCATAAGTAGCTACACAGAGAGAAGACATCCATGGGAGAGGCTTGTGTGTGGTAA  
CCAGAACTGCCTGGGTTATAAGTATATGAACTACAAGACTAGGCATCCCTAAGACACAAT  
AAGTGCTTTTTTGGAGCAGTGCTGGAGTTCTTGTCTACACAGGAGAGGGTAAAAGTCAGT  
GCAGTTCAAGTCACTCCTGCCAAAGAATGCTTGGTAGCCATGGGCTAGTGAGACCTGGAG  
AAATGCACATTGCACAACANTTTAAAATGTATTGAAGACCTACTCAATGCTTGTCACTAA  
AGCTGGATTCTGTGGGGAGTATGCAATGTCTAAGGCACTGCCTGGACATTAAGTGAATGA  
ACAAATGCATGAATGGATGAACATATTAAGATGGTTAAACACATNCCAAGGCCAGTGGTT  
TCTTCAAAGTGTGGCCCTGGAACCAANCANCATTGAGCTTTCACCTAGAAATTTGTTTNA  
GAAAATGAAAAATC

Sequence 828

Table 2

CGGNCGNCNGGNCAGGTGCTCNTGGNCTTCCTGCTNGGGCTGTATNGNAANCNGGCTTNN  
TCACAGCTCATGATTACCTCACGAAATGNAGGCTCTAAANGNTCAATGANNANGCTNTT  
CTNANCAGACTNNNGNTCATGGANNCCANANNAGNTNANACCTTNGANNANGTNANGNNT  
GCTGTNTATCNNCTNANTGAGAANGCNATTGNNNNTGNTNNTCTCNANGAANACAAGAAN  
CTCTNNTTTTNNNACGNTNNNCTGANAAAANGNNATTNANCAACNGANANACTAANTNNNT  
TNTGCAANNNNNAANACNTNNCGANGCAGACACTATTTACNTANGNGGATCTCGGCCGC  
TGGGAGCGAATTCT

Sequence 829

AGGTACACACTGCGTGCAAGACTCTGCTGTGTGCAGTCAGCCCTGCATCGTTTCTAACCA  
GTTATACTGGCCTTACTTTCATCATCTTTGAGGCCAGAGCTACACATGTTGATGCCGAAG  
AGTGGAAGGAAGGAGAGCAGAGAGTAAAGGGGGTAGATTATGTAGATTATACAGACATGA  
GCGAGGGAGGGTCACAGATACTGAACAACCAAGTGAAGTTCCCCTATGTGGATTGCCAGAAC  
ATGAAATATCTGAGAAGAAAACAAAATTGTCTTACAAGGTAGTAGCGTCTGGGTAACT  
GTGATGCTTGCAGGATCGGTACCTGCCCC

Sequence 830

CCGGGCAGGTACCGATCCTGCAAGCATCACAGCTTACGCAGACGTCTACTACCTTGTAAG  
ACAATTTTGTTTTCTTCTCAGATATTTTCATGTTCTGGCAATCCACATAGGGGAACCTCACT  
GGTTGTTCAAGTATCTGTGACCCCTCCCTCGCTCATGTCTGTATAATCTACATAATCTACCC  
CCTTACTCTCTGCTCTCCTTCCCTCCACTCTTCAGCATCAACATGTGTAGCTCTGGCCT  
CAAAGATGATGAAAGTAAGGCCAGTATACTGGTTAGAAACGATGCAGGGCTGACTGCAC  
ACAGCAGAGTCTTGACGCGAGTGTGTACCT

Sequence 831

AGGTACCATANGTGGNCANNTGATNGNATNGNAAGGGAGGGATCTTTAAANCTTGCCTAA  
GATGTTANNATATANGNCTGANATTGNAACACAAAGCANNCTGNTTCTAGAGTCCCTGTA  
TCATNTTTGGTATCCTTACCAAGGNAAGGATGGTCTCTTTCAGNCTTAGTTTTCTGACA  
CTTTGTTGTTATTTTTAAGTTTTAGATGAACAGTTGTTGAATGTTATNANATGCTTTTCA  
AACATCTGTTGGAATGACCCTGTCATTTTCTTTGGTCTGTTAATATAGTAATTAGCAGT  
ATCTTTTCTCATTTTGAAGTGTGCTTATTTAGGCTAAATACTTGNTAGCATTACACTT  
TGGTTTTGTTTTCAAATNTATTTAGACTTTTCTCTAACCATACTACAAAAAATGTTAAA  
GGCAGTTTTNAGGCCCAANGAAAATGATACCAGATGGAATCGGATCTATACAAAGGAA  
TTAAAAGCTCTA

Sequence 832

CCGGGCAGGTACACACTAGCTGATAAGACACTGTTGCCCATATGTCTATTTATTGGATC  
AGCAATTTATAAGTCCCACATTCTCATGCCACATAGCTCTACACAGCTGCAAAAATATAC  
CATAGCTTGCAGGTGATCATTGGTTTGATAAAAGATATTGAGTCGCTCATCTTGTAAG  
TGATCTTTGATATAAGAGGAGCATCAGCGGGAAGCTCATATGTCCCGTGGCTCACACAC  
CAGAAGGTATTTGTGCTTGTGCTGCTGTCTGGCAGTCCATGGCAATGGCTTTTTCAG  
AGAGGCCTGTTTTGTGGTTAACTGTGTGTACCT

Sequence 833

GAGAAATGGGGTCTCACTATGTTGCCCANACTGTTCTCATTCTCCTGGGCTCAAGCAGCC  
CTCCTGGCTCAGCCTNTCAAAGTGTGGGATTACAGGTGTGAGGAATTGCACCTGGCCCA  
NACTNTTATTAAGTAAACAGGATGGAATAGGTAAAAATGCCAGCAGATAATCAAAAT  
ATTAGCCTAAGAGCCCATGTGTAATACCACAATTCCTAGCAATAATTTGAGTTGAGCTTT  
CTCATATTTTCTTTCCATGTAAAAGATACTCATCTNTCCCTTGTGTACCATATCCAG  
CCCCACTAGCTGCCTTTTAGGTTTTGATTACCACTTAGGATCTGGTATGCGAAATTCCT  
TCTGCCCTAAAAAGCCTTTNTCCCCAGTNATCACATTGGNGTCTCCTTGTGGNTCTTTTG  
TTATANAACCTTAACCGTCATTTTCAGAGAGGTTTTCTNTNACTACCCTATCCAAAGTGC  
TCAGTGAATGTTAATTGCTGTCAATTTATTAATGAGATNTCCCTTGNTATTCTTTGGGCT  
GANANCCTGTATTTCTTCATAGCATTGACCACATTTTGAAATTTCTTT

Table 2

## Sequence 834

ANGNACCNNTTCCNAANCTGNGNCTNAAGAGGNNTNNNTNGCTNCTGNACNCTTTGGAAC  
TNTNTNACTGATGTGANCACGTNAACANGCTNACTNNGTGGAAGGGGAGCAGCTAAATGG  
ANCAGANCCAAGTCATTTTACTTGAGTCTGGCCCTNTCANACCAGCCNTCAGCCATCTGA  
CCAAAAATGTGTAAAGACANAACAGCCAACATCAGCAGAGCCACCTACCTAACTTGTACC  
TGCCCG

## Sequence 835

CCGGGCAGGTACAAGACTCCACATTNTTTTAGTTTGATATAGGNACATTTTCATGCTTCAT  
AGGAAACAATTAATTTTCATCTATTAANAGAAACCAAATGAGAAAACCTCCAACATAATCT  
ATCACTNATTNAACCTATAAGCCCAGAAAAAATTTAGCTTCTTCTTGCCCTCGGTTTATC  
TACATTAGCTCCTGAACGAATACACTGGGGCAGGGAGAAAGTCATTTTCTAGTCTTGTTG  
CCATAAAACTTGAGTTCTTCTCCCTGAATAACAGGAGTAACAGTCCAATTTTACCAGAA  
CACCAGTTCTGAGAGAATCAACTGAAGGAACAAGGTATCACTTCAGCCACTGTGTCTTTC  
TAAAGTTTCTTTCAGGGATGATACCTTAATTTATTTTTCCATTGCGCTTCTCTTCTCC  
TAAATACTAAGTATACACCAGTTGGATAAATAATTGGCATTTCAGTAAATACACTTATT  
ATTATCTTTTTAATCCATAAAGATCTTCTCTTTTTGTGTGTGGGTATTTTTTATGACA  
CGGTCTTGCTCTGTACCTGGGCTGGAGTTGCAGTGGCACTCCACACCAAAAATGGNTCA  
CTGTACTTTNACCTCCTGGACTCAAGCCCATCCCTTTACCTCGGGCGGTCTAGNAACTAN  
NGGATCCCCCGGGCTTGGGANGAANTTCGATNTNAANGCTTATTTNATTCCTGNNACC  
CTTGGNNGGGGGGGGGCCCGGNTACCCANCTTTTTGG

## Sequence 836

CCGCGGTGGCGGCCGAATTGGACTGGAGTAGCTGCAGCAACTGCGACCTGGCAGCAAGTA  
ACCGGACGAAATGGACAGATGGCCGTGGAGGAGAAGCCTGACCTGACTGAGGGAGAGGAC  
TGATCCGACCAGGAGGGGAGTCCCCCTGAGCCTCTGGGGGGGCTTAGGAGGTGTCCCTC  
CCGGGTTTCGGCACCAATGAAAGGCAATGGAAGGGCACCATGGATCAATAAGGCTGAGAG  
GTGAGAAAAAGAGGGCAAAATCTTCTTTATTGAGCCCTCGGGCGAGGTTCACTGGTCCG  
CAGGGGGAGGGCCAGGGAAGTCGC

## Sequence 837

NCTNACATNTGTAGNGAACAAAGATCAGAATTATAAAATCAAAAATAAAAATGTAGCCCT  
ATTTCCAGGCTGAAGTGAGCTGACAAGCCACATCCACTATGTGCCTGGGGGTCCCTGTCT  
TGGGTCAATTCAGNCTCCCAGAACTGTCCACAAACCAGTAGACAGTTTCTTCTCATCTTG  
GAGAGGTGGGGAGAGCTGGGGTCTGAGTTGAAAGGCTTGAGCTACTGGCAATGGCTCTG  
ACATGAAAACAAGCCCTATCTCTGTACCT

## Sequence 838

CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGACATTAGAGGTGAGCCCAGAGGGGG  
TAAAGTGGACTGGGGAGAACTTCGGAGGATGTTTCATGTCCAGGAGCAGCCCCACGCCCTG  
TATGGTGGTGTCTAGAGCCTCACAGCAACTAAGACCAACCCAGCTCTCAGAAGAAGGAA  
TGTCAAAATGTCATGTTCAATTTTACATTAGTGCCTGGAATCTTTTCTCGCAATTGAA  
ATGAAATGTGCTGAAGGAGGTGAATCCATGCATTAATCTTCAGCTCACAAGGAAATACT  
ACATAAGAAGCAAGACCACAGACTCAAGACGGACATAATTGGATTTTTTTTGCATGGC  
CTGGAAAGAAAGGTACCT

## Sequence 839

AGGTACGCGGGGACATTAGAGGTGAGCCCAGAGCGGGTAAAGTGGACTGGGGAGAACTT  
CGGAGGATGTTTCATGTCCAGGAGCAGCCCCACGCCCTGTATGGTGGTGTCTAGAGCCTC  
ACAGCAACTAAGACCAACCCAGCTCTCAGAAGAAGGAATGTCAAAATGTCATGTTCAATT  
TTACATTAGTGCCTGGAATCTTTTCTTCAATGAAATGAAATGTGCTGAAGGAGGTG  
AATCCATGCATTAATCTTCAGCTCACAAGGAAATACTACATAAGAAGCAAGACCACAGA  
CTCAAGACGGACATAATTGGATTTTTTTTGCATGGCCTGGAAAGAAAGGTACCTGCCCG

Table 2

## Sequence 840

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAATCCCAGTGATAGGC  
ATGGCTGGTCTCAAGATGGGTCTGGGGCTGGGGGTGTGAGTGCTCAGGGAAGTGCATAC  
AGCTTGAAGAAGCAGAGGTGGGATTCCGGGCTCCAAAGCCTCTTCCACGCCACTACTTT  
TGCCATCTTCTTAAAAACCATCATTTTTACACAATTCATTAGAAATACAGAATTTCTAC  
CCTATGACACAATTACATGCTTATAATCAATATATTTGTATATTGTAACCTTTCTTAT  
ATATTATTCTGTTGTAAGGTGTAAAGGGAAAATTAGAAAGAACAGAACAGGAACGTTCTA  
TGCATTTTACATCCCTTAAATCTCCTGCAGAAATACAGTGATTACTTAGCACAATGCC  
AAGTATATGGCACACTCAGTAAGCTATAGTTATTGTTATCTGTGTTATAATATTATTGCA  
ATTTCAACATGATGAAAATTGATTTTGTAAAGTGAAGGCAATGTGACCCAGAGGTTACACA  
ACTAGATGTCANGCCCCAGAACTGGCCTGATTCCCCCGCNCATGGTTACCGCACTACACT  
ATGCTGGTATTCTACCTGTNTNNTNACGCAGTACCTGCCCCGGCCGGCCGCTCTA

## Sequence 841

AGGTACTTTTGCTCTCTGCTTTGCCAATATTTACTTTTGATCTTTGNTTTTGCCTNTAT  
TTGCTTTTGCTCTGTTTAAACAGGCTNTTCAGAAAGGCAATAAGGAAGCTGCAAGAATA  
CATGCTGAAAATGCAATCCACCAGAAAAATCAAGCAATTGATTTCTTAAGAATGANTGCT  
AGAGTTGGTGCTGTGNGCAGTCAGAGGTCAAATGCAGTAACATGGGCAGNGACTTCTG  
CCTTGATGGNACAAATTCAAACACCAGTTTTGAAAACACTGGGATATTCAAACACCAACA  
AAAATGGGAAAGATAAAAAATGGAGGTAGCNTCTTACANCCCTAATAACACCCACATCACC  
TTACATGTTGGTTAGTCAAATGGAAAAAGAAACCTTTGTTTATTTACTTACCTT

## Sequence 842

CCGGGCAGGTACGCGGGGACATTCAGAGGTGAGCCCAGAGCGGGTAAAGTGGACTGGGGA  
GAACTTCGGAGGATGTTTCATGTCCAGGAGCAGCCCCACGCCCTGTATGGTCGGTGTCTAG  
AGCCTCACAGCAACTAAGACCAACCCAGCTCTCAGAAGAAGGAATGTCAAATGTCATGT  
TCAATTTTACATTAGTGCCTGGAATCTTTCTTCACAATTGAAATGAAATGTGCTGAAG  
GAGGTGAATCCATGCATTAATCTTCAGCTCACAAAGGAAATACTACATAAGAAGCAAGAC  
CACAGACTCAAGACGGACATAATTGGATTTTTTTGCCATGGCCTGGAAAGAAAGGTACC  
T

## Sequence 843

GGCACTTTGATCATCTCACTCACTGCAAATGTCATGTGAGGTTTCATGGAAGTATTAAGA  
GATCCAATTAAGAAGAATAGTTCTGAGTCTAAACCAGCCAGAGTGGCTTCTCTAGGGGA  
AACTCCCCGCTCAGCTGGTACCT

## Sequence 844

CCGGGCAGGTACTATCCCATTTTCCCTTTGCCATGCACCTGTCTTCTCTTCAGGATTGAT  
CACAAATCAAAACCATTCCTACCAGCCAGAGGTGGGCACATGACCCAGGTCAGACCAGT  
CACAGTTCCTGATTCCCGGCCACAGTGCTTGATGGGGGAATGAGCATATATCAAACCAGG  
ACAGTCCAAGTCTTCCGGGGACTTTGCTGCCACAGTTGACAGGGGGAGGTATTTGCATA  
ACTTACCACACACAGCTAAGCTGGTGATCCTGCTGCTTGGCAGCATCTCCCAGCGTAC  
CT

## Sequence 845

GGGGAAGCNTCCCACCCGCGGGTGGGGCCGGGCCCGAAGGTACCCCCAACNTTAAAAAGG  
ACCGTTTAGGGGTCAAAGGGGTNGTTANCCCCATTGGAGGGGTGGGGCCAAGGAAAAA  
ATGGGGCCTAACAATTTTTCTTAACCCCAANAAAAAATTACCGAATAGGCCCTTTA  
TTTGAAAACTTTAAAGGGGGTCCGAAANGGTGGGGAATTTTTAAGCCAAGTTAAAACT  
TGAAGAAGTTAAGGAAGGTGGCCTTTAAGTTTGAAACAAGGGCCCAAAAAATNNNANA  
ANATNNAANAANNNTATNAAAAGGTNCCCTTGCCCCCGGGGGGGCCGGGCCCGGCTT  
CTTAAGNAAACCTTAGGTTGGGGAATCCCCCCCCGGGGGCTTTGCAAGGGGAAAAATT  
TCCGAATTATCAAAGNCTTTAATTCCGGAATTAACCCCGGTCCGNACCCCTTCGNAA  
GNGGGGGGGGGGGGGGCCCCCGGGTTACCCCCAACNTTTTTTGGTTTCCCCCTTTTTAA

Table 2

GNTTGAAGGGGGTTTTAAATTTNGGCCGCCGNCCTTTGGGCCNGTTAAATTC AAN  
TGGGGTNCCAATTAAGGCCTTGGTTTTNCCCTTGGTGGGTGGNAAAAATTTTGGTTTT  
TANTTCCCCGCCTTCCAACCAAAATTTTCCACCCACCAAAACCANTTTACCCGNAAGG  
CCCCCGGGGGGAAGGCCAATTAaaaaaAGTTGGTTAAAAAAGGCCCTTGGGGGGGGGT  
TGGCCCTTAAATTTGNAAGGTGGGGAAGGCCTTAAACCTTCNACCAATTTTAAATTT  
TGGCCGGTTTGGCCNGGCNTTCAAACCTTGGCCCCCGGCNTTTTTTCCAAGTTCNNGG  
GGAAAAAACCCCTTTGTTCGTTGGCCCCAANCCTTGGCCAATTTTAAATGGNAAAT  
CGGGG

Sequence 846

CCGGGCAGGTACGCGGGTAGGGATGCAGAACTGGCCACAGTCAGGGCTGGCCAACAAGGG  
ATGGGATGGCAAGGGAACCAAGTGGGAGACTGTTTACACCTTTGACTTCCTTTCACAGGT  
CAAGGCAGGACTGTAGCATTAGGTCTNAGAGATGCAATGAACAGGACAAATACACTTCCC  
CTTCATCTGGACCTGAGGCTCTGGGCAAGTCAGTACCT

Sequence 847

AGGTACATTACCCTACGCTCCAAGCGCAGCAAGCCGGCCAATATCCGTGGCACCGTGAAG  
CCCAAGCGCAGGAAAAAGCATGCAGTGGCATCGGCTGCCCCAGGGCAGGAGGCTTTGGTC  
GGACCATCCCTTCAGCCGCAGGAAGCGGCAAGGGAAGCTGATGCTGTAGCACCTGGGTAC  
CTGCCCCG

Sequence 848

CCGGGCAGGTACGCGGGGACACATTGAGAGGTGAGCCAGAGCGGGTAAAGTGGACTGGG  
GAGAACTTCGAGGATGTTTCATGTCCAGGAGCAGCCCCACGCCCTGTATGGTCGGTATCT  
AGAGCCTCACAGCAACTAAGACCAACCCAGCTCTCAGAAGAAGGAATGTCAAATGTCTAT  
GTTCAATTTTACATTAGTGCCTGGAATCTTTCTCCACAATTGAAATGAAATGTGCTGA  
AGGAGGTGAATCCATGCATTAATCTTCAGCTCACAAAGGAAATACTACATAAGAAGCAAG  
ACCACAGACTCAAGACGGACATAATTTGGATTTTTTGGCATGGCCTGGAAAGAAAGGTA  
CCTCGGGCCCCGCTCT

Sequence 849

NNCGGAGNTGNCCGCGGTGGCGGCCGGGGGCCATTGAGACTGCCATGGAAGACTTGAAAG  
GTCACGTAGCTGAGACTTCTGGAGAGACCATTCAAGGCTTCTGGCTCTTGACAAAGATG  
ACCACTGGAACAATGAGAAGGAGAGAATTCTACTGGTCACAGACAAGACTCTCTTGATCT  
GCAAAATACGACTTCATCATGCTGAGTTGTGTGCAGNTGCAGCGGATTCTCTGAGCGCTG  
TCTATCGCATCTGCCTGGGCAAGTTCACCTTCCCTGGGATGTCCCTGGACAAGAGACAAG  
GAGAAGGCCCTTAGGATCTACTGGGGGAGTCCGGAGGAGCAGTCTCTTCTGTCCCCTGGA  
ACCCATGGTCCACTGAAGTTCCTTATGCTACTTTCAGTGCATCCTATGAAATACACCA  
NGGGAGAAATTCCTTGAAATTTGCAAGTTGTCTGGGTTTCATGTCTAAGCTTGTTCAGCT  
ATCCAGAATGCCCCCAAGAATTTAACTGGGATCTGGAAGAGGAAAAGAAAAGTATGGTG  
TTAACTGAACC

Sequence 850

AGGTACACATACAGTTTTTAAACCTAAAGTTNCTGGNGAAACAAGCTTGCTATTACNNAG  
ATNTNTNNTGAATGTCNTAAAGCTATAAATCCACTCATCGNTGTGTTTAAGGAGGAACTG  
AAGCACAAATTGTTAAGAACAAGTGAATTAGGTGAATATACATTGACNAAAGGTTGATAAT  
AAAGTTNGTCAGGAATTTCAAAAATAATTTAGTGTGACTTGAAATCTTTAAATCATGTT  
ATATTAANATTAAGTAACACTTTACTGATTTAAATTATTTGGAGTCATTTCTAAGGGAAA  
ATACTGAAATATCAATTGCTTAACAAGAAAGTTTTAAATATAACGGTAATTTGGGCATC  
CTGGGTTTTTCNCATGTTATGGGAAAAAGCCTTAACCAATTATTTGGGGGCTGGTTAATT  
TAAAGGGGCCATAAAAAATTTATTTTATNGAAGAATGGTGTTCATNTGCAAAAATACTA  
ACATGGATGGCACTTCAAAAATGCTTACCTAAATTTTACCTAAGAAATTAAGGTTACC  
TAAAGAAGTTAAT

Sequence 851



Table 2

CCGGGCAGGTACAAGTTACCTACCCTTTCTTGCCCTCAGTTTCCTCCTTTGTGACAATGG  
GGACAATAACAGAACTGCCACACAAGAGGGATGTTAGAGAACTGACCAAGCGAATGTAA  
GTAATGACTTGGAGCAACGTATGGCTAAGAGTAAGTTAGGGGTTGTTACGATGACTTTCC  
TGAGATAAACAGGGAGATCTTTTAGCTGTGGGTCAAGTGCAGGAGGACAGTGGAGCTCAA  
GGCCTAATGGAACTAACACTAATTGTACCT

Sequence 852

CCGCGGTGGCGGCCCGCCCGGGCAGGTACGCGGGGACGTTAAGAACTGGACTTACAAGATG  
GATAGGACCTGGTGGCAGCTGTCCTTGAGGAAGCCAGAGCCTGGAGAGACAGATCTCATG  
TTATAGCAGAGTACCT

Sequence 853

CCGGGCAGGTACTTACCGGGGAGCACAGTGGACTAGGGGATGCCCTTGATAATGACGGTT  
TCCTAGGTGCAAGATCAGAGCATGTGCCTACACCTTGTCCTGATGCCGAGGTGGAGAC  
CATTGGGAAATAATTAATAGATATTTTCTGGGGGAAATCACAAGTCACTGAGGTGTTT  
GTTTGTTTGTAGGCAGTGCCTAGAGCTTGAAGCCACTCAAGCCAGTTGGGGAGGAAAGG  
ATGCGGAGGTACCT

Sequence 854

AGGTACATTACCCTACGCTCCAAGCGCAGCAAGCCGGCCAATATCCGTGGCACCGTGAAG  
CCCAAGCGCAGGAAAAAGCATGCAGTGGCATCGCTGCCCCAGGGCAGGAGGCTTTGGTC  
GGACCATCCCTTCAGCCGCAGGAAGCGCAAGGGAAGCTGATGCTGTAGCACCTGGGTAC  
CTGCCCCG

Sequence 855

CCGCGGTGGCGGCCCGCCCGGGCAGGTACCAAGCTTCACAGCCCTGTCTCTGCCATGGAG  
AGCAGGCCCACACACTGCTGCCTGCTGGAGCAACCGTGTCTGGTCACAGGGCCAGAGGCAG  
AGAGCCCTAACAAGCAGTCAGGGCGCTAATGAGGAAGGGGGACAACCTGTCTCTACAG  
AAAAAATAGATTAATATGTTCAACAACCTCCATCCAGAATCCAGCAGGAAGTTAAACC  
AAACGACACATGATTCTCTGACGAAGAAATAAGAATACGGTTGACTGGTTTTTTATATTT  
ATTTACCTGAAAGCTTCTAATGTTTCTAACTAGTGACATATTTTCAGGCCAGGAATTCTGT  
TTGCCTAGATCATGATGTCTAAACACTGCACACTTGACCAACTTTGGATCCAAATAACTA  
GCTTTGTATGCTCTTGGGCCCTGCAGTACCTCG

Sequence 856

TCTGAAAAAGCCATTGCCATGGACTGCCAGACAGACAATGACAAGACACAAATACCTTCT  
GGTGTGTGAGCCACGGGACATGNGAGCTTCCCCGCTGATGCTCCTCTTATATCAAAGATC  
ACTTTCACAAGATGAGCGACTCAATATCTTTTATCAAACCAATGATCACCTGCAAGCTAT  
GGTATATTTTGCAGCTGTGTACAGCTATGNGGCATGAGAATGTGGGACTTATAAATTGC  
TGATNCAATAAATAGACATTATGGGCAACAGTGTCTTATCAGCTAGTGTGTACCTGCCCG

Sequence 857

CCGGGCAGGTACGCGGGTGACGGTGTGTAACAGGTTCAAATAAAGATTAAGTCAAAC  
GTGCACCAAGGCTCTCCTCTGAGGCCAGGCACAGAGCTAGGAACAAAGGGCAAGTCATGA  
GCTGGCCAATCTGCAATATCGTGAATACCCTAATCATCCTGGTTTATTTACAGGGTGGAG  
CTGTATGATCTGTAAATTCGCTTCTACATTTACATTTCTGTGATTGATCATTACGCCTAA  
TTAGAGTTTTGTTTGAATGTCAAAATGTTTATGGGAAAAGACATCAGGGAGCCAAGGA  
AACCATTGGGGACTNNGGGAAGTCTTAAGCCACAAGGAATCTTGCCTCATTAGGCCCCAC  
TTATACCAACCAAAACAGGGAGGGATATTTATGGAGGGGGATTTTCTGTGTCCCAACTTA  
ACANTTTCACCTCCCAACCTTTGNGGTTNTNTTCTTCTNTTTTAGGANGACGGGAG  
NTTTTTTCTNTNTCCNCCCAAGNCCCTGGGGANNNTACCCTTCNNGGCCCGCTTCNTNAG  
AAAAACCTTANNGTGGAATTCCC

Sequence 858

CGAGGTACGATGGCCGGGCGCGGTGGCTCACGCCTGTAATGCCAGCACTTTGGAAGCCTG

Table 2

AGGCGGGTGGATCACTTGAAGTCTGGAGTTCAAGACCAGGCTGGCCAACATGGTGAAACC  
CANTCTCTACTAAAAATACAAAACCTTAGCTGGGCGTGGTGGCAGGCTCCTGTAATCCCAA  
CTCTCAGGAGCCTGAGACAGCANAATCGCTTGAACCTANGAGGCGGAGGTTTGCAAGTGA  
GCCAAGATTTGTGCCACTTGNACTCCAGGCCTTGGACAACAAGNAGCCGAGGACTACCGT  
CTCAAAAAAAAAAAAAAGGGATACCGATTTCCTTATTTAATTTAATGACCTAAATTACTTT  
TCCCAAAGGGCCCTTACCTCCTGGAATATCATCACCCATGGGGTGTTTAGGGATTTTTTG  
GACATTATTAATNTTAGGGGCCACATTAAACCTTTTNAAGACTAACAGCCCATGCACCT  
CAGAAATTTTATTATCCAAACATTTTTTACCTTGGACCTTAAGGAGGAGGAGGAAAAAT  
TAATTTTTTCAAAAAAA

Sequence 859

CTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACGCCTGTAGTCCT  
AGCTACTCAGGAGGCTGAGGCAGGAGGATGGCTTGAAGTGAAGGAGGAGGCTGCAGTG  
AGCCAACATTGCAACACTGCACCCCAGCCTGGGCATTAGAGCCAGACCTAGTCTCAAAAA  
ATAAATAAAATAAAATAAAATAAAATAAAATGTTAATAATGCCTACTCAGACAAAGAAA  
GGCTCAGGCAAAAGACTGAGTCTGATCTTCTACATTGAGGAGACCATGTTGATTAGTGTT  
ATATTCAAAAAACAATTCCCAAGTAATGCATACACAGCTGAAAGAAGGAAGTATTCCA  
GCTACACCCTCCAAGTTTCTACATCTCAGTAAACGGCATCGCCACCCACCTAGAACTG  
GGCATCATTTGGTTCCTCGTTCTCCTTTTTTTTTTTTTTTGAGATGGAGTCTCTGTTGAC  
TCCGGGTTCAAGCCCCGCGTACCTGCCCGGGCG

Sequence 860

AGGTACAAGTTGTCTTTATGCTGCGAGATAAGTCCTCTCTTGGTTTGAGCTCCACCTTT  
TCAGTGAACCTTACATTTTGGGGGATCTGCTCTTGTAAGGACATCCTTTCTGGTGAGT  
ATTCTTTTGGTTTAATTTTGGTTTGGTTATTGTGTCATGAATTTAATCTCATTAGGAAA  
CAAGTTAAGTTGAATAGACCAACTAGTGAATTAATCCGTACACAAAATATATGTTTTTGG  
CATTTACCTGTTTATTTTGAAGTCTTTGTAAGAAATGTAACCTGTAATGATAATCTCT  
GCTTTGTAAGGATATCTCCCTCTCTGACACCTAAACACTAGATGCTTTCACAAAGCAAA  
AGGAGGAGACCTAAATCTATCTATCTGTGTAAGTCAACCTTGACCATTTCAATTTGAAG  
GCTTCCTATATATGCTTTTTTTCATCTCAACAAATANTGGGTGTTTAAAGTTCTGTACCT

Sequence 861

AGGTACAACAGTCCTAGGAACTCTTACTGTCTGTAGTGGAGATAGGGAAACAGGTTTATA  
AGGAATTAATAATTTATTGCTCAAGAGTAAGAGTAAATGAATAACTAGGAGATAATGAAT  
GTCCTGGCCATTTATTCTCAAAGAGCATGAATATACAGAATAGGCTGATTTGAGACATTA  
TACTGCTTTCTTCTGGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT  
ATAAGAGCTGTGTATGGAGAAGGTAACAGTCCGTATGTTAAACAACAGATCCGGCCAT  
AGAATAGGTGCCTAATGGTTCTGAAATATAAGCAAACATGCTGGACAACCTTATCATTAT  
TTCTGGCATGGCTGGCTCTGGGGCTCATGTTTGTGATCCCAACTCTCTGGGAGGCCCGAG  
GCAGGGAGATTGCTTGAGCCTAGGAGTTTGAGACCAGCCCGGGCCGACATAA

Sequence 862

CCGGGCAGGTACACACTAGCTGATAAGACACTGTTGCCCATATGTCTATTTATTGGATC  
AGCAATTTATAAGTCCACATTCTCATGCCACATAGCTCTACACAGCTGCAAAAATATAC  
CATAGCTTGCAGGTGATCATTGGTTTGATAAAAGATATTGAGTCGCTCATCTTGTGAAAG  
TGATCTTTAATAAAGAGGAGCATCAGCGGGGAAGCTCACATGTCCCGTGGCTCACACAC  
CAGAAGGTATTTGTGCTTGTCTGTCTGTGTCAGTCCATGGCAATGGCTTTTTTCAG  
AGAGGCCTGTTTTGTGGTTAACTGTGTGTACCT

Sequence 863

AGGTACCAGGTTGGGCTAAGAGATGAAAAACCAGGCTCAAGTTGGGCCAGAGATGGACAA  
TGAGTCACTTCCACCAGAATTCCCAGCCACATATGCCACCTCTGGGTGAGAAGAGCCAA  
ACGTATTTATCGCTTTTGTCTCAGGGCCAACATAGACACTTGATTCTCTCTCAGGGCTGTG

Table 2

TTTTCCCCCAAATGTATCAATACATCCCTATTTTCTTCCCCCTTTGTTTTCTTTCCCTG  
GTGACCTGCTACCCACACCCCAGCACACTGATGGTGTTCCCTCCACCACACCGAGACCC  
CGCCACAAGCTCTCAGCCCTCGTAGAGCACAGGCCCCACCCTGAAAGTTGGCAGAGCACC  
GGGCTATCAAGCTGTGTCATGTGGAGCCAGCAAGCCCGGCACAACCGTGGATCCCGGTA  
CCTGCCCCG

Sequence 864

CCGGGCAGGTACCTGTCTTTGGGCTTTATGTCATGTAATACTCACCCNAGTGACCTTTAG  
GGGAGATGTCACCGTCGTCGTCGTCATCATCATCCCGACGTCATCGTTTCTT  
ATTGAGAAATGAGACCACTGAGGTTTGGGGAGGTGAAGTACTTACAGTAAAAGCCAAATTC  
GAACAGCAACAGGGCTGGGTGGGACATAAATCCATTNACTTACAGTAAAAGCCAAATTC  
TTTATTATGCTCCACATGATCCTGTCCCTGCATNTCCTGACCTCTTCCCCATCCCCCTT  
CCGATCACTCACTNCAGCCACACTGGCTTGGCTGTTNCTNAAACACACCAGGCAGCTTC  
AACTCCAGGGCCTTTGCAAGAGGTCACTTCTTNTGCCTGGAACACTTTTNCCTAAAAACN  
ACCGCATGGNNTTACTTCAAGAAATGTGCTTCAAATGTCAATNTTTTAAAAGGGAATTCTT  
TTTTGTGAACTTTCTGTTTTTAACAATTTCTTTAACAACCTGNTCCAANCTTTCAANA  
AACCTTTTTGGNCCNTTGCCAAATTTNCAGGGAAGANANNGGGGNAAAAATCGNAAAAAN  
NGANAGGTCCCTTTCCGNCCGNTTTTAGAAACTANNGGGGAATCCCCCGGNCCTTGN  
ANGGAATTCGAAAANTNAANNCTTTATTCNANTNCCNGTCCNANCTTAAAANGGGGG

Sequence 865

CCGGGCAGGTACTGGGGATTGATTAGCCACAGTCTTTGCCACAGACTCTTTTGGACTGAG  
CCGATAGGTCAAAGGTTAGCTTATGCAGTAGCATGGGCTGTAGGTTTTTGCAGTGATCA  
ACACCGGAACTTTGAAGACTTTTGAAGATTTGTTGCTGCTGTGAGTGACATCAGTTC  
ACACAGCCTGAGAGAGAACTCTCAGTCCATGCTGTCCCTCCGTGGGCCCACTCAAGCGAA  
ATGGGTGAGCTGCAACACTGTGCGGTGCCAACCAGGAGAAATCTGCCTATCGGGGCTGA  
GAGACATCCTGTAGTGGCTACCCGTCTCCTTTGCCCAAATGTCAAGTGGAAGAGGTGCT  
TCACATATTTATTTCTTCTACATGGGCTCATTTATTGTAAGCCATTGTGGACCCTTGG  
AAAGCCAAGCTTTTATCTTGATTTTGGAGTGTGATCAANGTGACAGTTGTTCTCCGGATG  
ACAGGGAATCTGACTTTG

Sequence 866

CCGGGCAGGTACGCGGGGAGACTTTCCCTGCCGGCACATGGACCTGGCCCAACCCTCACA  
GCCAGTAGACGAGCTGGAGCTCTCGGTGCTCGAGCGGCAGCCAGAAGAGAACACGCCTCT  
CAATGGTGCCGACAAGGTCTTCCCTTCTTTGGACGAGGAGGTCCCCC

Sequence 867

CCGGGCAGGTACAGACGGGGTTTCAACCGTTGGCCAGGTTGTTCTCAAACCTCCTGACCTC  
AAGTAGGCCGTTTGGCTCGGCCTCCCAAAGTGCTGGGACTACAGGCGTAAGCCACTGAGC  
CTGGCCAGACTGAACATTTTAACCATGTCTACTCTCCCAAATGAACCTATAGATCTAAT  
ACACTCTGGGCATGAATCAGGTTTGAATTCAAGGATCACATTCTTAAGACATTGACAAC  
CTAACTCAAATAGCAGCCTGCTCTTCCAGCCAGCGCTCATTCTCCTCTTCCCCTGTTTTA  
TTTTTATAGCATGTCTCATCATCTGAAATTACCTTTTTGTTCTTTCGTCTCCAGTTTCC  
CCGGTAGAATTTGTAAATGCCATCAGGGCTGGTGTGCCCTTTTCTGAGTATCCAGTA  
CCTCGGCCGCTCTAGAACTA

Sequence 868

AGGTACAGCTGTGATTCCAGAACTAAAATCCCCATTTCTTGCCAGTTGTCAGCTGANAG  
CCCGTCCCAGCTTCTAGGCACTGCTCACATTTTGCCTTGTTGGTTCCCTTTCTATTTCT  
TTTGTTCCAAAGCCTGCAATAGCTGGTCAGTTTCTTCTCATGCTTTGAATCTCTCCTGC  
CTCTTGTCTGTTTTGCATCTCCCCAACAAAACCTTCTGCCTTCTTTTGCAGTTTGT  
TTGTTGTTTGTTTTTTGTGAGA

Sequence 869

Table 2

AGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGGNTTNGNTTNGNTTTNGTT  
NGTTTTTTTTGTAAANACAGAATCTCCCTNTGTTGCCCAGGCTGATTCANACTCCTGGG  
CTCAGGGGCTCCTNCCACCTCAACCTNNTGAAAGTGCTGGGATTACAGGGGTGAGTCACT  
GTGCCTGGCAAGAANATGAANTTTTATCCCTNAACTGACANCTNTGCCCTGGAGGCCCA  
NCATGGGCTTCAGGCTGCCNTNGCCCTGCTNANAGGGCATTNTATTTAGTTCACTNTN  
ACCCATTGNGGATAAAGGAGATTCACCTCACATTTTATGTTTACAATTTAGTATAAGC  
NCNAATGTTTAAATGATAACAAGGGAAGGAGCTCCCCAAANACTCTGNACCATCTTGATT  
TCTGGGATTAAANATTTTANTCTGGGTAAACAAGGATTTNTATTATCCCAAANCNTNT  
NTAATATTNANAGGCCGGGGGGGTTTTTTTTAAAAAATACCCTNTNTNCAAAAATTTN  
CNNTCCAAGGAAAAATTTTTTT

Sequence 870

CCGGGCAGGTACCANCAAGCCCTGNGGGCCGAGAGTTCTGCCTGGTCCCACCTGATCACT  
CTGTCAATGACCTCAGTTCATGTGAACCTTTTCNCCACCTTCGTCTCAAACCCAGCCCTGA  
GCCCCCTCATGCTGGGATGTGTGCAGGGACCCCGTGCAGGCTTCCAGAGCAGGGGGAGCA  
CTCAACTATGTGACAGACATGTCAACTCCACAGATACACAGCAGGTCGTGACTGAAATGACT  
TCCCAAGGAACTGCTCTTGTCTATCCTTTTTAAAAACATTAATGTCAAGAACGATAT  
GAGAGCTCAGACTGCGCCACGTGGGGAACTGAGAGAGTAGAGGGCCAGTACCT

Sequence 871

CCCTTNGAGCGGGNGCCCGGANANNAANAAAAANATNCTNTTTTTCTGATCAGAACCCTG  
GCTGAACGGTNTTAAATTCAGGTTCCAAATGAGCCAGTGGTAAANAAGAAATAGAGTG  
GAAATTTAACACATCCATTATTATACACTGCAAAATGCAACAGGGACAGATGCCCCATG  
AATATTTCTCCTCA

Sequence 872

AGGTACGCGGGAGGGAAGAGTGGCCTTATGGCTACTCAAGCCACGTGTTTACCTAAAATG  
TGCTCCTAGTCGCATAGCTTCTCAGAATAGTCAAAGAAGAAAGGAAAAAGAAAGCTGGATG  
TCCCGGGTTTATTTTTCTGCATCTTTGCAAATATGAGACACAACCTCTGTTCCAGGAGCT  
TTCGATGCGCTTCTACAGGTATTTCTTTTTCTTTGTGTCAAGGATAAATGTGAAGATAG  
CTGTGGAATTGTCGGAACATTTTGCCCTTGAAATTAAGCAATGTTTTATGCCTAATTTCC  
CAAGGCAAGATGTTATTTATGCCAGTATAAAGCAGCAACTTATATTTCTACGCAAAAC  
AGAAAACCAAGAAAGATCTAAATTTGACAAAGCCCTAGTTTGATGAATT

Sequence 873

TCGNGGTGGCGGCCCGCCCGGGCAGGTACNCGGGGGAAAACAAAGAGGAGATTAAATGTG  
TGGGTGGCATGGGAAGGGTGAGTTGGTATGGGTTGGGAAAGGCAGCAACAACCTTCATTTCT  
CCTGAGCAGTTTCCATTGTAATCAATGTATTGGGTCAGCACCAACCTCTACCTGAGGTAA  
AATATTTAACGCATGTTTCTGTCAGCCTTGGAAATATGCTTGGCCCTCTAGGTTTATATT  
TGTGAGTTTGGGGTCTGGGTTAGGCCCAAACCTAGTGGCCTAGCCTTAGGCCAACCTCTT  
CCATGAGGTGTGTTTTTTTTTTTTCTTTGACTGAGTCTCTCTNTGTGCCCAGGCTGGA  
ATGCAATGGNGCAATCTCAGCTCACTGCAACCTCTGCCTACCGGGTTCAAGCGATTCTCC  
TGCCTCAGCCTCCTGAGTAGCTGGAATTACAGGCACGCGCCACCATGCCAGCTAATTT

Sequence 874

CCNGGCNGGTTNNTNTGCTTTCAATCATTTGCGCAATACTGNTNANCTTNAACCAAATGG  
AACTTANANCCCATTNAAATTGACGTTTCAATTCAATCTAGTCAAATTGGGGAAAGACAA  
AATCAAGAGAATTAAACAATTTTTTCTAAAGTGTCATTCTTNCATAAAATATCNTTTA  
TTATTTATTTATTCATTTNTAAACAGAGTCTTGCTCTGTCGCCCAGGCTG

Sequence 875

CCGGGCAGGTACTGTGCTTTCAATCATTTGGCAATACTGCTAAGCCTTTAACCAAATGGA  
ACTTAGAACCCATTAAATTTGACGTTTCAATTCATCTAGTCAAATTTGGGAAAGACAAA  
ATCAAGAGAATTAAACAATTTTTCTTAAAGTGTCATTCTCCATAAAATTTCTTTTAT  
TATTTATTTATTCATTTTTAAACAGAGTCTTGCTCTGTGCGCCAGGCTGGAGTGCAGTG

Table 2

GTGCGATCTCAGCTCACTGCAACCTCTGCCTCCCAGGTTCAAGCTATTTTTGTGCCTGAG  
CCTCCTGAGTAGTTGGGATTACAGGGGCTATGATGTTGTCAACATGATGGAATAATCACG  
CAACTATGAAAAAACAAGACTATGAGGAAACATTTAAAGGCATATCAGAACTAAAGG  
CTTCATGAGGTGGTGGCTCAAGCCTATAATCCCAACACTTTGGAAGGCCAACATGGAAGA  
TCACTTGAGGGCAGGAGTTCAAGACCAGCCTGTGCCACATACCAAATCTCTGGTTTCACA  
CCAAAAAATAA

Sequence 876

CCGGGCAGGTACGCGGGATAGCATTCACTGCCAACAGAACCCCTTCATTTTCTTTTATG  
TAATTTTCTCTTTAAAGAACAACCTGGTCAGGTCTAGTGTATGGAGAGCCCTTGAGGAC  
AGAGCCCTAATATCTGGATGATGTTTCTGAATTTAGTTGACATTGTCCACTTGATGTCT  
AGTGGTCATTTTAGGCAACATGTCCAACTGAACTCCTGTCTTCCCTGGACCCTGCCTC  
CTGTGGCCTGGCTGTCTTAGTCAGTGTGAGCCCTCCATGAGCTTAGGCAAAAAGTCCTG  
GGTTATCTCTGACTTCTCTCTACTTTCCACAAACCATATCAAGCTCTCAGCAAGTCCTAT  
TGGCTCTGCCTTCAAGTGTAGATAGAATCTGCCCTCTGCTTATCCACTGCGTTGCTGTTA  
CTCGGCACAAGTTGTTACCTCCTACTGGATCACAAAGAACTTCCACATTGGACTCCTGCT  
TNCACCTGCCCTTCAGTCTGTTTTCTGTGCAGCACCCANAGCTGGCCTGTTAAAGCA

Sequence 877

AGGTACTTATCTCATAGAGTAATTGTGAGAACGAATGCTTTGAGCACAGTGCCTGCCACA  
GAGTTAGAGCTATAAGCTTCTCTTTGGTCTATGTGGGAGTTTTCTTCCAGGTGAATTAC  
CAGATCCTTAGGGCCAGAGAATTCCTGAATTCCTGTGAGTATATAGTGTAGTAACTTGC  
CTCTAGAAAATACCAACATATATTTATTAAATTATTAAGATTAGATTGTTTTAGAGTAG  
GTCAGGGGAAATAAACAGAACTTGGGTCATGAGAATAAACATTTCTTGATATTGATTGA  
TTAATGCACATTGTGGTGGATGAGTCTTTTTGTGAATGTTGTGAACATTTACTTAGATCA  
TTTCTAAAAGGGTGCTAGAGAATCTGCCGGTTCACCCTAATTGATGCCCCCTCTAAGTAG  
CAAAGCANAAGAACCAAAATTCAGTCTCAGCACTTTAAAGGTTTTGATTCTAACTTGG  
TGTTGGTCCCCTGCCTGCTTGAACATTGAAACACTTTCCAAAAAATGA

Sequence 878

CCGCGGTGGCGGCCGCCCGGGCAGGTACAACTTTGAATGGAGTAATGGAGCAGTAATGT  
CTGTTTTAATCGCCCTGGCCCTCTTTGCCCTATGGAGGCACCAGGATGAAGGAGGTGAA  
AGGCTGACTTAAGAGTCAGGTAACTACCTCCTGCTGTGTTTTAATACTAATGCATTGTG  
ACCTTGAACAAGAACTTGAACAAGAGTTCACATCTGCATAAGAGAGGTCTTATCTACTGG  
TCTCCAAAGGATCTGGGGATATGGAGCAGGATCCAGCCATCACCTGTAAATTACCTGCC  
ATTCTTAAAAACCCACCCTTACACGTAGCTTGGGAATCAGCAATCTGATTTTCATGCGGGA  
GATGCTGGAAACATCTGCTGAAATTAATTCTCCAGTAATTTGGAAAGATCAAAACTCAA  
CCTTTTCTGACCCTAAGAAAGAGGGTCTAAGCTCCCTACAGCTGGACTTCCAGATAAGA  
AGGATCTAGTAGTGAGGAAAAAACTCTAAAAATACAATTTGGGACTTGGGACCCANGT  
GGCAGTTCANGAATCANGGCTGGAACACAAAAAAGANGTGAAAGGGACACCAGGATCGAC  
GTTTGGAACAAAAACNGTGGCCACCCCTGNTTCCACTGACAAGGNGATTNCNTGGCTTG  
GCTTGACATT

Sequence 879

CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGATGCCAGAATTGAGAGTCCATAGGA  
CCCGTTTAACGGATCCACATTCAGTAGACGGTTTTTTGTATGCTTCGAGGGAAGGAAGG  
TATTTTCAAATGCAACTTCTTTTTTTTTCTTGCTCTAGTTAGGGCTGATTTTACCACTG  
GGCAAATTGCATACATTTGGATCCATGCCACGCTAAATACTGTTTATTTGGAGATCTGT  
CAGAGGCAAGCACATGGAAGACAAGGGGATTCTGGTTTGAAGGCAATTCTCATCCAGA  
CAGATTCAGATGGAGAGGAGCGGTGTGGATTAAATGCGCCGAAGTGACAGCGTCTCACC  
CTGTCACGTAGGCTGGAGTGCAGTGGTGAGATCACGGCTCACTGCAGCCTCGACTTCATG  
GGCTCAAGCGATTCTCTGCCTCAGCCTCCTAAGTAGTCGGGATCATAGGCACTTGCCAC  
CACATCCGGCTAATTTTTTTGTAGA

Table 2

## Sequence 880

AGGTACCCATGAACATAGTTTTACTCTTTTTAAAAGCTGTAGGCACTGGAAGGTCAGTG  
TTCAGCCATGACAGTGGAAGGTCAGTGTTAGCCATGACAAGGCCCAATGTCATGGGCCC  
TCTGTCATCATCCTCTGTCCGTAGTGATCCCCAGACACTTTTGTCATGGCTGTTTAGACAG  
AATTTTCCTGCAGCTCTTTTGGGAGTAGCTCTTGAAAGTTTAACCCCTGACAGTTAATGA  
AGAACAGTGAGGCTTAGGAGGCAGGTAGGCCTTTGAGCAAATAACTCTGAGCAACTGGTT  
GCCATTGTCAAGTTCTCCTATCAAGTATGCGTTTGATTTTTAAAAGGATTCCCCAAAGTTC  
TATTTAGGACTACAGAGTCTCTAAGAATGTATT

## Sequence 881

AGGTACTTTGAGAGGCCAAAGCAGGAGGATTACTTGAGCCCAAGACTTTGAAACCAAGCCT  
GGGCAACATAGTGAGACCCTGTCTCTACAAAAATTTAAAGATTAGCTGAGTGTGATGGTA  
TGTGCCTTTGGTCCCAGATACTCAGGAGGCTGAGGCGGGAGGATCACTTGAGTCCAGGAG  
GTCAAGACTGCAGTGAGCTGTGTTCTGTCCTACTACAAATCAGAACCCCTCCCCTT  
CGAACTGCTGTTAAACATCTACTAGAGACTATCAGTGTTGTTATTTATAGAATCAGGAAA  
TGCTAGGCTTCTCCTTCTTAAGTCCTAGATGCTGAGACTTCAGAAATTCAGTGGTTTT  
GTTGAGGTCAGGAGTCCAAGACCAGCCTGGCCAACATTGTGAAACCCCGACTCTACTAAA  
AATACACAAAATTAGCTGGGTNTGGTGGTGGTGCCTNTAGTCCCACATACTCNGGAGGC  
TNAGGCANGAAGATCACTTGAACCCGGGANGTGGAGATTGCANTGGGCTGAANATCATGC  
CACTTGCACTCCANCCCTNNGCAAGAANTGAGAACTCTNTCCCTTACCCAAAAAAAAGA  
AAAGGAAATTAATNGGTTTTGTTACCTTATTGAANTNGNGGGTGAACCGANCAATTTT  
CCAAGTTTCATTTTGGCCAGCCCTAANAATGGGCTTTTTNCCCC

## Sequence 882

GTGATTGCTTTCCAAGGCCACCGAGGGTATCTGAGACTCCCAGGCCCTGGTTGGTCCTGC  
CTCTTCTCCTTCATAGCGTCCCAGTGTTGTGAGGAGGGCGCTGGTGGTAGCTTGACCTT  
GTGTGCCAACGCTTCCCTCAGGTCTGGGCCTAACAGCCTCCACTGCCTGGGCTCACTCAGG  
GAGCGCCTCATTATTTGGGCAGCCATGGATTCTATCCCAGCCCCACCATCAGTTCAGGGA  
CACAACCTGACTGAAGATGCCAGACATCCTGAGAGTTGGCAGAACACAGGAGGCTATTCT  
GAAGGAGATGCAGTATCACAGCCACAGATGGCACTAGAGGAGGTGTGAGTGTGAGATCCA  
CTGGCAAGCAACCAAGGACAGTCACTCCAGGATCCTCAAGGGAGCACATGGCACAGTGG  
GAAGTGAGAAGCCAGACCCATGTTCCAAACAGAGAACCTGTTGAGGGCACTGGCTTTCTT  
TTGNCACCCGGAAACGTTNTGGACAAGAAACGTTTANTGCCCTGTNGCCACTGTAGAAGTG  
GAAAAAAAAAAG

## Sequence 883

CCGGGCAGGTACGCGGGTAGGGATGCAGAACTGGCCACAGTCAGGGCTGGCCAACAAGGG  
ATGGGATGGCAAGGGAACCAAGTGGGAGACTGTTTACACCTTTGACTTCCTCTTCACAGGT  
CAAGGCAGGACTGNAGCATTAGGTCTCAGAGATGCAATGAACAGGACAAATACACTTCCC  
CTTCATCTGGATCTGAGGCTCTGGGCGAGTCAGTACCT

## Sequence 884

CCGGNCAGGTACAGACAGGGTTTCACCATGTGGGCCAGGCTGGTCAACTCCTGACTTCAA  
CTGATCCCACCTGCCTGGGCCTCCCAAAGTGCTGGAATTACAGGCGTGAGCCACCACGTC  
TGGCTGGAAAATGTTTGTGGTTTATGCCACACTATTTATCTGGGCTTTTGTAGGTTCTGT  
ATCAAGCAGCCAATCATCTGCCTGGGCAACCTCCTACTTAGACCACACCTCCCGCGTACC  
T

## Sequence 885

GGGGGACCTCCTCGTCCAAAGAAGGGAAGACCTTGTCGGCACCATTTGAGAGGCGTGTCT  
CTTCTGGCTGCCGCTCGAGCACCGAGAGCTCCAGCTCGTCTACTGGCTGTGAGGGTTGGG  
CCAGGTCCATGTGCCGGCAGGGAAAGTCTCCCCGCGTACCTGCCCC

## Sequence 886

CGAGAAGGTCAAGCACCGGCTTCGTCCAGTCCGATTTCAAGGGCGACGTGCTGGGACGCG

Table 2

AGCTGCGCCTGAACGCCGGCGTGCGCTGGTTCGCAGACGAAGCTCGACATCGACAACCTTCA  
AGAGGAGCGGCAGCGGCAACACCTACCAGCCCAACAGCGAACAGGGCAAGTACACCAATG  
TGCTGC

Sequence 887

CGAGGTACTTTTTTTTTTTTTTTTTTTTGGATGCTAGTTGTGATTTCTGTAAATTC  
ATTTGCAAGCGGGTAAAGGGGGATCAATGAGATGATACAGAAAGGAGGAGCTGACAATTC  
TTTTGTCCATCACATCATGACAAATACGTNTCAACAGTCCTGCACTGAAGTTTTACTGGC  
AGCTNTTACTNTGGGAAGANAGAAAAGGGGAAGGAAGCATTACATTTTAAAAGCCACGA  
GGGAAGTGTCTCTCCTTACACGATGAGTTTTCCCTTCTAGGCAATCCTCCCCAGCTGCAT  
TACTGAGGGAGGAGGGATGAGACAGANAAGTGTGAGCCCTGAGAGCAACAGGAGGGCCA  
GCCTGGCTCCCAAAAATGTAGCTCCTCCCTCTGAAGCCTGACCCCTCCACCTGGCCACTN  
TTGCCGTCCCTGACATCCTAAACCANGGAGAGAAAGCANCAGGGCAATANCAGGGTGAACA  
GNGGTGCTTTTTGGAAGGGTTGCCATTAACCNCGATTTCCTAATCTTTCTTCCCAAAAAG  
AAGTATNATTTGNCATGTCTTAAACCTTTTTAA

Sequence 888

GTGATTGCTTTCCAAGGCCACCGAGGGTATCTGAGACTCCCAGGCCCTGGTTGGTCCTGC  
CTCTTCTCCTTCATAGTGTCAGGTGTTGTGAGGAGGGCGCTGGTGGTAGCTTGGACCTT  
GTGTGCCAACGCTTCTCAGGTCTGGGCCCTAACAGCCTCCACTGCCTGGGCTCACTCAGG  
GAGCGCCTCATTATTTGGGCAGCCATGGATTCTATCCCAGCCCCATCATCAGTTCAGGGA  
CACAACCTGACTGAAGATGCCAGACATCCTGAGAGTTGGCAGAACACAGGAGGCTATTCT  
GAAGGAGATGCAGTATCACANCCACAGATGGCACTAGAGGAGGTGTCAAGTGTGAGATCC  
ACTGGCAAGC

Sequence 889

CCGCGGTGGCGGCCGAGGTACGCGGGACTCTGTAAATACTATGAATTGGTATCTTGACTC  
TTTGTGATGCCAAATATTCATTTGACTACATTNNNTTCATTTCAAATTTAAAATTTTAC  
TTTTCAAACAACAAAAGTTGTGATTGAGTAATTGGAGGGGAAAAGAAAGCGATCTTT  
GGCCCAGCGCGGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCTGAGACGGGCGGA  
TCGTGAAGTCAGGAGATTGGATACCATCCTGGCTAACATGGTGAAACCTTGTGTCTACTA  
AAAATACAAAAAATTAGCTGGGCATGGTGGCAGGCGCCTGTAGTCCCAGCTAGTCGGGA  
GGCTGAGG

Sequence 890

CCGGGCAGGTACGTTCCAGGAATGGTAGATAGAGCATACATATAGGGCAGGCTGAGAGGC  
TGGAAGGGCTGCCTTGAATGCCAGGCTAAGGAATTTGGAATTCCTAAGGAAGCATGGAGT  
GAATTTTAGGCTGGGAAGGGATAGGATCAGATCTATGTTAATATTGCTCACCCCAATTGC  
AGCGTAGAGGATGGGATAGAAGGGAATGTATGGATTGAGGAGATGGCTTAGAACCCTAA  
GATTCATGGTAGCAGGGTCTCGAGCAGGGGCTTGCTTGAAGCAAGCAGGTCCCGTGGAGCA  
GGTTTGTCTTAACTCTCGTTGTCTTTCTGAATGGGTATCAAAGAGGGGCTTCTGTCANCC  
TGGATGACCGGGGCTGCCTTCTTTGTTTGTGGGAGGGACGCATGCCTGGCAACTTCAT  
AGAGGTCCAGGCCATGGGCATTGCCAGAGGCTGAACANACCATGCTGAAGAAAG

Sequence 891

CCGGGCAGGTACTTTTTCTTCTTCTTTTTTTTTTTTAAAGAGAACATCTGAATGAT  
GTATTCGGAACCAATTTCCCAAGAATATGGANAAAGGGAATTGAACATAATTCCCAG  
TGTAAGAGTGGAATGAGCATGTGGCCCTGTGGGCCTAGTCCCAGTT

Sequence 892

CCGCGGTGGCGGCCGAGGTACGCGGGAGTTACTTAAGAACCACAGTTCCTAAACATTTT  
ATTTGGGAGCTCAACTTCTGGCTTCTACTTACCAAGAGGCAGTAAGTTATAACCTCTGG  
CCTTTGTCTTTACATTTTCAACTTCTGGATCCCTAACCTCTGGTCCCAAGTTACTACGC  
TTGCCTATATCCACTAACCACTCACTAGGTCACAAAGTTGATGGCTCTGGCTTGACCCAG  
TGAATGAGAAGTGTCTAGATGTTTTTTTTTTTTTTTCGCAATCTTCATAGGCACAG

Table 2

TTGCCTGTTTAAATTTTTCTTCAGCCCTTCCCTTAGAGGAGGGAGCCTTAAGTTACCTTT  
CAAGGTTGGGGGTTAGGAATCTATCATAACTAGTCTAGAGATTTCTCACCAAGGGAAATT  
TTCTTATCTAAAAGAGGAACCTCAGGTCTCAACCCTGCCAGTCACACCCAATTAATGTC  
CTTCACAAAAATAAACAGCATATGTTCCCTTTCAATTTGAGTTCAAGNGGCCACACAAA  
AAATTACCCTTTAATTTTTTT

Sequence 893

CCGGGCAGGTACCCATGAACATAGTTTTTACTCTTTTTAAAAGCTGTAGGCACTGGAAGG  
TCAGTGTTGAGCCATGACAGTGGAAGGTGAGTGTTGAGCCATGACAAGGCCCAATGTCAT  
GGGCCCTCTGTCATCATCTCTGTCCGTAGTGATCCCAGACACTTTTGCATGGCTGTTT  
AGACAGAATTTTCTGCAGCTCTTTTGGGAGTAGCTCTTGAAAGTTTAACCCCTGACAGT  
TGATGAAGAACAGTGAGGCTTAGGAGGCAGGTAGGCCTTTGAGCAAATAACTCTGAGCAA  
CTGGTTGCCATTGTGAGTTCCTTACCAAGTATGCGTTTGATTTTTAAAAGGATTCCCCA  
AAGTTCTATTTAGGACTACAGAGTCTCTAAGAATGTATTTCTGTTGTCAAGGTCAGGAGC  
AAGATCATCTCTGTGGACCTGTGCGTTTGAAGGAGTTGCAAGATATTCTCATCATTCATT  
GATTTATATACTCAAAAAACATATATTTGCATGTGCCAGGAAAAGGTAAGGAAAGGG

Sequence 894

GGTGTTGGTGCTTATGGAGTCCCTAACGTTTGCACAAAATGGTTGCTACATTCCACACTC  
CCATGTGCCCTGAGCAACCTCCAGGGAACTTCAGATACCGTGGGGCTTGGCCTGCCAGC  
TGAGCTGACCCAGCGATCCTTTCTATCACAGCTTTGATCTTCACTGGGTTGGGAGCCTGT  
CTGAATCTAAACATCTGCCTCTCTACTGCCCCACCCCTTCGGCATTTCCTAGCTCTCCCTG  
AAAGGTGCAAACATGCATGCAGTTACTCAAACAGAATATTTATCCTTAACCTCCCTGTCCC  
TCACAATTTCTTTTAAAACAATCCACTATTGTCTACCCCCGCCCGCATCACCTTTCA  
TCCAGGTGCCCATTCCTTCTCTAGTCCTGCAATACCTAAGCATCGATCTGCCTTTAG  
CACATCCATCCCCGCCTTATTCTCCACGCAGGAGCTGAGTGACCTGCACAAAATCCCCTG  
CTAAATACGGGACCT

Sequence 895

CCGGGCAGGTACACCATGTCCAGTGATTGATCTCTGGACAGAGGCTAAGTCTTGGGTAC  
TCGCTTCACAAAGAGGCATCACTGTTCACTCAGGGGCTCCTACCTGAATCCAGAGCAGA  
CGGATTCAAATAAATGCACCAACCTCTATAGACCTGCCTTGCAACCTCAAACCTCTTGGG  
GTCAAAAGCAAGAAGAAATGTTTATGATCCTAGATTGTAGGGGAAATAATGGTGATTTTT  
AAAAACACAATTTCCCGCTGGGCGCGGTGGCTCACACCTGTAATCCCAACACTTTGGGAG  
GCTGAGGCAAGGCAGANCATGAGTTCAGGAGATCAAGACCATCCT

Sequence 896

AGGTACTGGGCCTCTCTCTCTCAGTTCCCCACGTGGGCGCAGTCTGAGCTCTCATATCGT  
CTTTCTGACATTTAATGTTTTTAAAAGGATGACAAGGACAGTTCCTTGGGAAGTCATT  
TCAGTCACGACCTGCTGTGTATCTGTGGAGTTGACATGTTCTGCATAGTTGAGTGCTCCC  
CTGCTCTGGGAAGCCTGCACGGGGTCCCTGCACACATCCCAGCATGGAGGGGCTCAGGGC  
TGGGTTTGAGACGAAGGTGGGCGAAAGTTTACATGAACTGAGGTGATGACAGAGTGATC  
AGGTGGGACCAAGGCAGAACTCTCGGCCCCCAGGGCTTGCTGGTACCTGCCCG

Sequence 897

ACCGCGGTGGCGGCCGNCNCGNCAAGTACCAGGGCACTCCAAATATGTAATTTAACACAT  
TCATTAATAACTATGATAAATAGATATTTTATTCCAAGAACAATATCATTAGAGAGTTAG  
ATTGGAGGGCAAGGGGATTAAGTATCTTAAGTTTATTGTTTCCCGAGTGACCATTTTTAA  
AAGCCTCCTTCAGGAAGTGTGGAATGCCTACCAGGCTCCCTGACTGCTGTCTGGTGAGG  
GTCCCTACTGGTGCTGTGGACAGCACAATACACAATGGGGCACAAAGAAAGCCACGCAGCC  
TCCCCCTCCTAGACACATGCTGTGCACCCCTTGGCTCTGCTTGAAGGTTGAGCTCTGC  
AAATGGAAGGTTGCAAACATCAGACACCTTCTTTCTGTTTCTGTCTCTCTCCCCTTCTTC  
TCCCCACAGTGTCCAGCCTTGGCCCCCTGACTTTTCTGGGGTTGGGGAGGCCCTGAGGTT  
CAGAAGCTGAGCAGCTGGGTGAAGACCTCCCTTACTCAATGTGCTCTGGCCATAGGGAGC



Table 2

AGACAAGCAAGCTGAGTTTGGGTAGCCCTAGACACATGGAAAAAGAAACAGCTTTCTTAA  
CCTTCACCCCTTCATAAAATGACTTCATTAATGTCGCTNNGTTAATAAGGGAAAAANG  
GTAGCACTTCCCTTGNTTANGGNCAACCCCCCTNAAAAAGGGANTGGTTTTTTIN

Sequence 898

AGGTACACTGGCTGTGCTGTTTCTAGCACCATAAGGCAGTCATCATTATTGAGCCAGGGG  
CTGTGCAAAATTGGGGTGATTGCAGAGCCAAAAAGCGGGCTGGAGGGTGGTTTCTGGAAT  
GCCTGTTTTACTATTCTTCTGTTCTTTGCTCTTTCTGCCAACTTCAGAATCCTTCCTT  
TCCTTAAACATTTAGTGATATCCCTGAATTTATTTAATTGCTACGTGAGTGATTTTTGC  
CCCACAGCACTGGAAGATAATTGGAATGCATTCTAGCTTATGTGCTCTGGATAATATGCA  
ATTTACCAGCCAGCTGGAGAGTAGGTATGCCTTTGTCTCACAATGTCTTGTAATTTTTAA  
AAAGTTTCTCCTATTNGCTGGGAGTCTCTTGNACCTTTCTTACGGCCATCATATATCCTA  
CTAATGGGGGTCCCTTATNGNCTGAAATGTGTANAACACTTCTTTTTGGTAATACTGGAA  
NAAGCTTNTCTGGGCCNAATNAGGGGAAGAANACCCGNCCTTTTGGTTTTTNGTGAATGGNC  
NCTTGTGCNAGTATGGGCNCCCCAAATTAACCCCTACCGGGAANTTGNCCCCCCCCC  
CCCCCCCCC

Sequence 899

CCGGGCAGGTACCTACTCAGTTCTGCTGATGGTAGCGTAAACGCCACTATATACATAAAG  
AAATGGGTGTGGTGGTGTCAATAAACTTTATTTACAGACAGGCAGTGTCTGACTTGGG  
TCCCATTGGCTGTCTGTTTGTCTGACCCCTGCAACTTGACGCTGCAAAGTGAACAGCCCAGC  
ACCTCCCAGGCTGCGGTTAGGACCTCAGCCCGTCACCGTCATCTCCTGGGTCTCAGTTTT  
CTCATCTGTAAAGTGGGGCTGAAGCCACCTGCCTCATGTTTCTCCTGGGATTTTTGTAA  
ATAGTGACAAAAGTAGACAGAAAGCTCCAAAGGCAGTTTGCAAATAGGAAGACACAATC  
AAGTCTATCTGTGAAAAACATTTATNTGAGAATCTAAAATCTGGACAAAAGTACCT

Sequence 900

AGGTACCAGGTTGGGCTAAGAGATGAAAAACCAGGCTCAAGTTGGGCCAGAGATGGACAA  
TGAGCCACTTCCACCAGAATTCCCAGCCACATATGCCACCTCTGGGTGAGAAGAGCCAA  
ACGTATTTATCGCTTTTGTCTCAGGGCCAACATAGACACTTGATTCTCTCTCAGGGCTGTG  
TTTTCCCCCAAATGTATCAATACATCCCTATTTTCTCCCCCTTTGTTTTCTTTCCCTG  
GTGACCTGGTACCCACACCCCGAGCAGCTGATGGTGTTCCTCCACCACCCGAGACCC  
CGCCACAAGCTCTCAGCCCTNGTAGAGCACAGGCCCCACCCTGAAAGTTGGCAGAGCACC  
GGGCTATCAAGCTGTGTCTGTGGAGCCAGCAAGCCCGGCACAACCGTG

Sequence 901

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACACACGCATGCCAGCATGGGAT  
GGGAGGCAAGGTCTACTCACACATGCACCAGTAAAGCAATGTGTGTGTGTCAAGGGGGA  
GGGGAGGTAGTGGTCCATGCCTGAGTAAGTGCCAGCAAAGCAGCAGTGGGGAGGCTGTAG  
TGGGTGANGTTGTAG

Sequence 902

GTCTCGAGCGCGCGGCCATCGGCAGCATCGGCGTGATGCCGATGCCGCCCGCGATCAGC  
ACGGTGCGGGTGCTCCCCGGGTGCAGCGTGAATCCGTTACGCGGCAGGCTGACCTCGAGC  
GCCATGCCCGGCTCGAATTCGTNATGCAGCACGCGGAGCCGCCACGCCCGCTTCCTCG  
CGCTGGACCGNGATGCGCAGCATTCGCCCTCCTCGCCACACGGAATAGGCGTTGCGG  
TGGCGGGCGCGCGCGAAGTGAATGCGAGTTCGACGT

Sequence 903

GGGGGACCTCCTCGTCCAAAGAAGGGAAGACCTTGTGGGCACCATTTAGAGAGCGTGTCT  
CTTCTGGCTGCCGCTCGAGCACCGAGAGCTCCTGCTCGTCTACTGGCTGTGAGGGTTGG  
CCAGGTCCATGTGCCGGCAGGGAAAGTCTCCCCGCTACCTGCCCG

Sequence 904

AGGTACCAGCTACTTGGGAGGCTGAGGCAGGAGAATGGCGTGAACCCAGGAGGCGGAGCT  
TGCAGTGAGCTGAGATCATGCCACTGCACTCCAGCCTGGGCGACAGAGCGAGACTCCATC

Table 2

TCAAAAAAAAAAACCAAAAAAAAAACAGTGCTTGTTGTTCTTTGTTGTTATTGTTAAAGGA  
TCATTATCTCATTATCAACAACATTGGCAGGTAATTGAGCAACTGTTGTCTCCTTGTC  
ATGTGGAGATAGAAAATTGCCTACGAGGTTGGACAAGGTGCTGGAGCAGCGTCAAGGAAG  
AGAGATCGAACAAGAAGACTGCTTTGCCCTTGACAGCTTTGTTTCTGAAGCACTTTCTC  
ATATTCTCCCATTTAATCATCCCTCCCTGCCAACTT

Sequence 905

AGGTACAAAACTCAAACAAAAGCATATTCTGTGAAAAGCAAGTGTCTCTACCCCTGCC  
TTCCCATTTCTCTCCCTGGAGGCAGCCGATGATCCTGGTCTTCTGTGCTCTGCTAGGAA  
TGTTCTAGCATAAAGCTTTTAGATGCTGTCCGGGACACTAACGTGAGATTCTGCTTGCT  
GAGAAGNGNTTAGGAGCTGGCTGTCTTTGAGACAGAAAACACTGAGTATGTTTGGAGTTC  
ATGGGAGATGAANATTTGTCCCTGGNGANAATTTNNTTGGNNTTTGCTTTTGGAGAAGC  
CCNNACCANATCAGAAATTAACNTCTAACACCANGGGAACAAAAAGATTTTGGTTTG  
CCCCGGGGGTGCCTTGTTTGGGNTCNGTGNTTCTTCCCTNCATTTTANGGCCNTTGT  
TTCTTGAATTGGGNG

Sequence 906

AGGTACTTTAGGAGACCCAGGCGGGCAGATTGECTGAGGTCAGGAGTTTGAGACCAGCCT  
GGCTAACATGGTGAAACCCTGTCTCTACTAAAAATACAAAATTAGCCGGGCATGGTGGC  
TCACGCCTGTAGTCCCACTGCTTGGGAGGTTGAGGCAAGAGAATCGCTTGAACCCAGGA  
GGTGGAGGTTGCAGTGAGCCGAGATCGCGCCACTGCACTCCAGCATGGGCCGACTAGAGC  
AAGNACTCCATTCTCAANAATAAAGNAAAGNAAAGAAAACAAAGAANAAGNAAAGCTTA  
TATTTGAACCTTCTCTTAATAAAAAAGNAANGAAAGNAGCAAAGCCTTGGATTGCCACACCA  
AAATTCTAAAAATTTTGGGGCAAGTTCGATCAAATTTAAAAGGGATTAATTTTATTTTG  
GCAATCACCAAAAAATTAATTTCTTTTACNTTCCCCCCCCCAANAAAAATTCAAATTA  
AAAAAAGTTTNCAAAANTTAGGCNAAACCTTTTTTCCCTTAAATTGGTTGGTTTGTAGA  
AAAATTGGTTAATTCACCCCAAAATTTACNATTTGTTGGTNCCCCCCCCAAACCTTTC  
TT

Sequence 907

CCGGGCAGGTACTACAAGATCAAGATTTTTTCTAAAGAGCCATTTGTCTTATTTTAGC  
TTCAAGCCAAGCCAGGGCATCTGAGAAATACCAAGCCTCCGTTGTGATGTGTCGCCATGA  
AAATGTGGCTGCCCTCTGGATGCAAGTCTGCTGTGCTGTGCTGTGGCTCAGAGTTAAA  
TTTAGATAAAAAATCAGTTAGGAGCTAAGAATATCCAGCTTTCCTGACAGGTTGTATCC  
GTCATTATGGGAGGAAAAACAAGGAAGTGGCTGCCTGGCGACAGGGAGCGGGCCAGGCTG  
AGTGTGAGGTGAGGCCTCGGCTGGAATCTCACGGACTTGAAAGGACAGAGACGTTTCTG  
AGATGTCTGCGGCANAATGTGGGAGGCTTNAGCCTTGAGGAAAGTTCAAGTTTGGGAGAG  
AAAGGTTGCCANACCTTTGAGGTGACCCACACTGGCTTTATAACTTCTAAGAAGGNTCT  
TTTAGGGGAAACCTGCTTTAGAATGAAAACCCCTGAAAACGTCCCTTTTGCT

Sequence 908

AGGTACAGTTGTTGAGGGTGAAGATTTTTACAGAATTCAGTAAGGATGGATTATAATATG  
CTGAACATTTGGTTGCTTTTGTAAATAGAGGTGGACAGCTGAGACAAATCTAGACAAA  
ATCTTACACTGACTGTTTTGTAACGACATACGAATGACCCTGAACTTTTAAGTAACTTA  
AGAAATAGGCCCGGCACGGTGCCACACCTGTAATCCAGCACTTTGGGAGGGCCAGGC  
GGGTAGATCACAAGGTGAGGAGTTGAGACCAAGCCTGGCCAACGTGGTGAAACCCCATCT  
CTACTAAAATTACAAAAATTGGCCGGGCGTGGTGCTGCGTGCTTATAATCCAGCTACTT  
GGGAGGCTGAGGCAGGAGGATTGCTTAAACCTGGGAGGCAAAGGTTCCAGTGAGTTGANA  
TCATGCCACTGCACAACAGCCTAGGTGATAGAGCGAGATCGCGTCTTTGGAAAAAGGAA  
AGAAAAGGAAAANGTTAGCTTGACCACTCTTNNGAAAATAATACTNGAAAAGGAAAAA

Sequence 909

CCGGGCAGGTATCCCTGTTGTCTGTGCTATACTGCAGGGGGATTGGTCAACAGGATGCAT  
TCCTTTCTGTACAGTTCATTATACTGGTCAGAGTTCTGAGGTCACCAGCTAACCTGAGC

Table 2

ATAATCAGTTCCTTGAAGACATTGGGTGGAGTGACCTCATAGACTCATAGGAAACCTGA  
AAAGAAGCCAGGGGAGAAACAATTGTTTTGAAGGAGTAGGGAGATTTCCCAAAGCCCAGC  
TGGAATGCTGTTGCCAGGAGGAGGAACCAAGTTAAGGGGCAGGGACCAGCCTTTTGGAAA  
TGCTTTGTAAGAATGCCCTAGGGAAGAGGAA

Sequence 910

CCGCGGTGGCGGCCGAGGTACGCGGGTCCAGAAGTAATTTATTGGCCTGACACCAGGCTG  
TGTATAAATTCACAAACGTATATAACCTACTCCAGAGGACCATGTGCATGTGGGAGGGA  
TTGGACAGATTGTTCTATATTTCTGGGTGACAGGCTGTGGTGGGAAAGGGCTGGGGACC  
CTGAGTGTGTTGGCTTGTAGCCTACACCTAACACCAGCTTTTCTTGGTCAGTGCTGGTGAT  
GCCAAGGCAACGAGCGAGCTTGTGGTTCAGCGCTTTGCATGATGTGGGGCTCCCTTAAAG  
AACCAAAGTGTGGGAGAGTGCCTTCAGGGCAGGGCTGCTGGGAAGTGGCAGGGCGAGGA  
GGCTTCCTTCTGTCCCATGATTCCCTCACATAGGGTAGTGCTAAGCCGAGGTCCAGAGA  
AGGTAAATGGGAGAAGTCTCATAAAGAGTTGAACCTGTAGGAATCAGGGGTGCCCGTTCA  
GCATGGCAATTGAATCCTTGATCCTCAGGGAGTTAGCTAGATCCGACTCACACCTGCTGG  
ACCGTGGAGAGCCAATGTCCCTCCC

Sequence 911

AGGTACAAAGATCTGTCACTTGGTTTCAGATCATAGCTGTATGAGTGAACCTTCAACCCA  
TTAGTGACCTGAAGTAGTCTCATGAGTCCCAGATAAATGTGCACCTACAGTGCTGCCCT  
CAGTTAAACCACTCCAGGGCCTTGTGTTTCCCTGTCTTTACCCAGTCCACATGGACCTT  
GCACCTTGGTTTGAGTTAATCTCACTCTCACAGCCTTTATTTCTTTTACATTCAACCTC  
ATTTGAAGTCACAAACAGGAGCTTCTAACCTCCCAAAGTGTGTTTTTAAATCTCCGCTG  
TGACCTCAGGAGTTGCAGCTCTAGGCCTTCTTTTCAAGTGTGCTCTCCTTGCATAAT  
GCTGACATCACGTTGTAGTAGTGGTAAACCTGTGCCTGGATTGCATTTCAATTGTGCTAG  
CCCTAATAGACTAGGAATGCCAATTTAGAGAGGAGGGACTAGAGCCAAGATTGAGAAA  
AAACAGGA

Sequence 912

AGGTACCCGCGCGCGCAGCCCCGATGCCTTCCTGTGAATGGGACAGATTGCCATATGGA  
TGAAGACACTGAACAAGCTGTAAACTCTTGGCGACATGTGCCCGGGGGGATTGTCCCAT  
ATTAACACCACCTGGGCTGTGGCAATTGTGCTGTCTGTGCACTGGCACTGAGGAGCCC  
AACAGGATGTTATTTTAGAGTACCTGCCCC

Sequence 913

GGGGGACCTCCTCGTCCAAAGAAGGGAAGACCTTGTCCGGCACCATTGAGAGGCGTGTCT  
CTTCTGGCTGCCGCTCGAGCACCGAGAGCTCCAGCTCGTCTACTGGCTGTGAGGGTTGGG  
CCAGGTCCATGTGCCGGCAGGGAAAGTCTCCCCGCGTACCTGCCCC

Sequence 914

GGACCTGTGGGTCAACTAAACCTCTTATCCTGNATAAATTACCCAGGGTTTTCCACTGGCT  
ATGACATACCCAAATGGAAATATCAAGTAAGCAGTTGGATATACAGGTCTTGAGTTCATG  
AGGGAATGAAACCAAACTGGAGGTAGTAAATCTGGGAACCAACCACAGATAGATGGGAT  
CAACACCAAGCTAATACATACAAGGATCTGCTATTTAAATACCANTTATGAACCATGCTA  
ATTCTATGATCTTGAGAAAATAACGACCTCACTCCTCCATCTTCTCATCTGAAAAATGGG  
AATGAAAGTAATGCTTTTTTAGGGTGGNTGTGAGGATTNCCGCGTNCC

Sequence 915

CCGGGCAGGTACCTCCTTTTTAACCTCTAGCTGATCTTGGAATTTCTTTTGTAGTGATA  
ATTGGGAAACAATAGGGATCAATGCTCTTTCTGATCTCAAAGAAGCCCACTCTAGAG  
AGAAAAGCAAGACCTATAATATTGAAGATTTGAGAAAAAGTTAAATTGTGATAAACATG  
CTGATTTCTCACACTGACTTAGGAAAAGCACCTAAGCCTCAAAAACGAGAATTGTCTTAG  
GAGTTAATGCTGTGGCTATTCTTGTCTGGCATTGGGTGAATGCATGAATCTTTATTT  
CAGTTTATAGAATAAGATAAACTATCGAGAACTCAGGTTGCTGCATAATTTTGACAGCC  
ATTCCCTGTACCT

Table 2

## Sequence 916

CCGCGGTGGCGGCCGCGCCGGGCAGGTACCCATGAACATAGTTTTACTCTTTTTAAAAGC  
TGTAGGCACTGGAAGGTCAGTGTTCAAGCATGACAGTGGAAGGTCAGTGTTCAAGCATGA  
CAAGGCCCAATGTCATGGGCCCTCTGTCATCATCTCTGTCCGTAGTGATCCCCAGACAC  
TTTTGCATGGCTGTTTAGACAGAATTTCTGCAGCTCTTTGGGAGTAGCTCTTGAAG  
TTTAAACCCCTGACAGTTGATGAAGAAGTCAGGCTTAGGAGGCAGATAGGCCTTTGAGC  
AAATAACTCTGAGCAACTGGTTGCCATTGTCAGTTCCCCTACCAAGTATGCGTTTGATT  
TTAAAAGGATTCCCCAAAGTTCTATTTAGGACTACAGAGTCTCTAAGAATGTATTTCTGT  
TGTCAGGTCAGGAGCAAGATCATCTCTGTGGACCTGTCGGTTTGAAGGAGTTGCAAGAT  
ATTCTCATCATTCATTGATTTATATACTCAAAAACCATATATTTGCATGTGCCAGGAAAA  
GGTAAGGAA

## Sequence 917

CCGGGCAGGTACGCGGGTGTCTTCTTCTTTTTCTTTTCATTCTTCTTACACTTGAAT  
AAAATCCAAAAATTATTCTTGGCCACAGACCATTATTTGCCACCCCTGCTTAAAGGTGA  
TTCTTTTCATGTTTGATACATCCAAAAATGAGAGCTGATACCTGATTCTCAAACAAATTA  
ATATTTTGCCTAAATGAATTTTCATGGTTTGCCATGGTGGCCCCCATCTGTAATCCCAGC  
ACTTTGGGAGGCCAAGTTGGGGGCAATCCCCTGAGGTCAGGAGTTGAGACCAGCTGG  
ACTACATGGTGAAACCCCATCTCTACTAAAAGAACAAAAATTAGCCAGGTGTGGTGGCAG  
ATGCCTGTAATCCCAGCTACTTGGGAGGCAGAGGCAGGAGAATTGCTTGAACCCGGGAGG  
TGGAAGTTGCAGTGAGCTGTACCT

## Sequence 918

CTAATTTAATCTCCTTGCCATATGTTCTTTAGTCCTCCAACAGGTCTGCCTACTTAAACA  
ATTTCTAGTCACAGGATGNGGCTGCCACAGTTTTATCTCCATCTGGCANAACATAACCAA  
CCCGCTTGAGCTCTNAGCTCCTGTTTTATAGCAACTAAAGTTTCTTGTTACCCGNTCC  
CCCACGCCACCTCCATGACGTGCATTTCTCGTAAACTACAGATCAGTAAACTANCTCAG  
GGAACCTGTCAGTAATGTTTGACAAAAAATAAATAAANCAAAANCTAGTACCCC  
TGNGATGTGTANCAAAATTCATCANACTAGCTTGNTGTTNTGGCACTGATTGCCAGGCA  
AGCTTCCATTGTGCCTTNATAGCTCATACACNGNCNCTTTCCCTGTATTNAGGCCCTT  
GTNGGGTTNTCTGGATCCATGGGCAAAAACTTGANTAGGGGGNGGGAAANA

## Sequence 919

ANGTACGCGGGNAGTCTCGCTCTGTCACCCAGGCTGGAGTGCAGTGCGGCCATCTCGGC  
TCACTGCAAGCTCTGCCTCCGGTGTTCAAGCGATTCTCCTGCCTCAGCCTTCTAAGTAGC  
TAGGATTACAGGCGCGCGTCAACACGCTTGGCTAATTTTTGTATTTTAGTANAGCCGAG  
GTTTCACTAAGTTGGTCAAGGATGGTCTCAAACCTTCTGACCTCGTGATCCCGTCCGCCTT  
CGGCCTCCCAAAGTGCCCGGGATTACAGGCGTTGAAGCCACCGCGCCCGGCGCTCTAG  
GAACTAGTGGGATCCCCGGGGCCTGCAAGGNAATTTNNNAATATTCAAGNCTTAATCGG  
ATTACCCGGNCGAACCTTCGTANGGGGGGGGGGCCCCCGGGTACCCCCAA

## Sequence 920

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTGCTTGGAATAATTTCTCCATC  
CCTTTATTTGAGCCTATGTATGTCTTTGCATGTGANATGGGTCTTGTCTTTTATCTAG  
CTTGCCATTTTGTGTCTTTAATTGGGGCATTNACCCATTTACATTTAAGGTAATATGT  
TTGAATTC AACCTGTCATCATAATGCTGGCTGGTTATTTGCANACTTGTCATGTAGA  
GAGTGAAAATAAGTGAAGGCAGAATCCTGGGAGGTAAGCCAGCCTGAAAATATTGATGAC  
ACTGGATGGCCTTAAGTTTCCATTTTGACTGGCATGTAATCCAGCCAAAGA

## Sequence 921

TCTGAGCTTCCCTACCTCTTGATTTGTTTGCAAGTGCTGCTAGTCCACCCTAATCTCTGCC  
TGCTCAAACTTCTCTCAATGCAATTCAGAGAGATAGAGTTTAGCACTACAGTGACTTAG  
ATGTATGTTGAATTTGATCTTTAAATAAATCATATGCATCTTAAGGGCACAGATGAATTT  
GATGATCTTTTGTGACATCTTGACAGTTGATCCTTAACAAATAATTATTAGTAGATAACA

Table 2

ATCAACAACCAATCCAGTGTTTATTCTTACCTGCCATGTTAATCTCTCCATTTGAATCTA  
CTTGAATTATTCTCTTTTGTTCAGTGTTGGAGTGAATTGTTCCAGCATAA

Sequence 922

NGGCGCTTTTCTTCATAAGCTTCACCGCTGGTANGTATCCTCAAGTTTCCGGTNGTTAGA  
GTTCCGGTTTCCGCTTCCCAAAGCCTGGGGCTTGTGGTGCCACCGAAACCCCCCCCCGTTT  
CAAGCCCCGGACCCGCTTGCGCCCTTATCNCGGGTAAACNTATCCGTCCTTNGAGTTCC  
CAACCCCGGTAAAGGACACGGACCTTATNCGCCCACTGGCAGCCANCCACCTGGTTAAC  
CAGGGATTTAGCAAGANGCCGAGGGTATGGTAGGCCGGTGCTTACAAGAAGTTTCTTTGA  
ANGTTGGGTGGGGCCCTAAACCTACCGGGCTTNCACCTTAGAAAAGNAACCAAGNATTTTG  
GGTATTTCTGCCGNTCCTGGNTTAAAAGCCCCNGTTTACCCTTTTCNGGGAAAAAAA  
AGAAGTTTGGGTAAGCCTTCTTTTGATTCCCGGGCCAAAACCAAAACCACCCCGGCTTG  
GTAAGCCGGGGGGGNTTTTTTTTTG

Sequence 923

ATCACCCGTTGGCCAAGGAGTCGCGTGTCAAGGCGTTATCCGAACATACGCTGG  
TCGTTACCGATCAGGTCCACAGTTGGCAGCATGTGTTGGACCTGTTACGCTTTTACGATC  
TTGCACCCGCCGTTGTGCACCGTGTGCGCACGTTTCGAGTTGCAGCGTAGCCTCGTCGCCA  
ATGGGTTTGGCGTGGCGCTGATTTATACC

Sequence 924

AGGTACAAATGTTTTCTGGACAATCTGTGCTGTGATTTTGGAAATTGTGTGTGAAAGAGG  
AGAGTAGCTGGGCGTGGTGGCTCGCGCTGTAATCCCAGCACTTTGGGAGGCCGAGGAGG  
GTGGATCATGAGGTCAGTTCAAGGCCAGCCTGGCCAAGATGGTGAAACCTGTCTCTACT  
AAAAATAAAAAAATAGCCAGGCATGGTGGTGGGTGCCTGTAATCCCAGCTACTCGGGAG  
GCTAAGGCAGAGAATTGCTTGAACCCGGGAGGCAGAGGTTGGAGTGAGTTGAGATCACGC  
CACTGCACCTCAGCCTGGGCAACAGAGTGAGACTCTGTCTCAAAAATAAAACAAACAAA  
CAAAAAAGAAGAGAGTGAAAGAATTTGAGTCCTTGCACAGACAATAACTGTTTTTTATGT  
TTAACTTTTTAGTTTTCTTATGTTAACTTTTTATGTTTAACTTTCAAAGGTTGAATA  
AATTTACCTTATGCTTGCATTATAATAGCAAAGTTCTTGATATGCAAAAGCCACAAAA  
GTAATTTTAGCTTAAGTACCTGCCCGGGCGGGCGCTCTAGACTAGTGGATCCCCCGGCT  
GCAGGAATTCATATTCAAGCCTTATCGATACCCGTCGGANCTCGANGGGGGG

Sequence 925

TGCGCCTCGGTTCGTTCCGCNTGCAGGCAGAGCCGGTATCAGCTCACTCAAAGGGCGGGTA  
AATACGGGTTTATTCACAAGANATCANGGGGGGATAACCGCAGGNAANAGNAACATGTG  
GAGCCAAAAANGGCCANGCCAAAAGGCCAGNNAACCCGTAAAAAAGGGCCCGCTTGC  
TTGGCCGTTTTTTTCCCATTAGGGCTCCGGCCCCCTGGACCGAGCCATCAATAAAAAAT  
CGGAACGCCTCAAATTCAANAAGGTGGCGAAAACCCCGNNCAGGGACCTATTAAGGAT  
ACCCAGGGCGGTTTTCCCCCTGGGAAGGCTTCCCTTCGTNGCGNCTCTCCTTGTTC  
CGACCCTGCCCGCTTACCCGGGATACCTTGTCCCGCCCTTTCTCCCTT

Sequence 926

TTTTATTTTGGCAAAGCATGTGANAGTAAGTAGCAAACATCATGACACTTCACCCCTCA  
AATATTTTCCACGTNTCACTTAANAACAAGGGCATTCAATTCTGTTACATGACCACAATA  
CANTCAGCACANATAGATATTAACATTGANACAATGCTCTGATGTATTGGTATCTACTAT  
GCAGTTCATAATCAAATAAGGGTTTTGGTAACTTGGGATCCATAAATGGTCTGCAAGGTC  
AGCCCCTGTANACCTGCACTTAGTGGGGGCCATTCCCTGTCTCANGGGCCTGCTCTACT  
GGNGATATTTTCACTGGCTCTGTTGCTCACTTANA

Sequence 927

CCGGGCAGGTACGCGGGTGGCCGAATCCTGGCTGCTGGAGGCAAGTCAAATCATCTTCAT  
TTGTGGTGCTTGAAGCTAGGCAGCTCTTTAGAATTATCCAGATGCCCACTAAAGTTCGA  
GCCATTGCCCATCTGGAATTTCTCCTGATAGTNTNGATGCTGGTCTAATCAGGTTCTT  
GGAGTACCT

Table 2

## Sequence 928

CCGGGCAGGTACGCGGGGAAGCTCTTGAGCTCCTCTACCTCTTAGAAAGCACAATTGAAT  
CAGATATCATATGAAAGACATACACACTTCATGTAATGCTACCTGCAAGTCTCCCTAGAA  
AAGCAGTTTTTGTAGGTGAAAACAAATGAAGCCAGGTAATATTGCAAGGAGGCTGTAATTT  
TAGCAGACCTACCAACAACACTGATGTAGGAAGCTCATTATTTAATTTCTGGAGCCTTT  
TAATTTTTCTTTAGAAAAGTGATAAATAATTGCAGTGTGCTTTGCTTCCAAAACCTGGG  
CAGTGAGTTCACAACAACGACAACAACAGCCGAGCTCATCCTGGCCGTCATGGAGTTT  
CTTGAAAGAACGTATCTTGTAATGATAAAGCTGCCAAGATGTATGCTTTCACACTAGAA  
AGAAGGAGCTGCAAATGAACACTT

## Sequence 929

AGGTACAAGCTGTTCTCCCGCAGCAGCCTGTGAGTCTTCTCTTGACCGTCTTGTCAGG  
AGCTCTTCCGCTCTGAGAAAACAGCAAGGCCTCTCCAAGCGCACCGAGCAGGAGGCATC  
CCGTGGTTGCACTGGTCAGGATCGCATCAAACAGCAATATTGATAAGCCAGCTGTGATTA  
TCTTCTTACCTTGGCACCAGCTGAAGATCTGTTAGAAACCTCTCCAACCAGGACTTT  
CAGGAGAAAACGGTGGCCACC GCCCAGAATAACAAGGCCCCAGCAGCAAGGTGTCTTTTC  
CCAGCAAGTGAAAACCTGCCCCCGCCACCACCTGTCCCCGCGTACCTGCCCG

## Sequence 930

CCGCGGTGGCGGCCGAGGTACTCCAGAAGAGTGTCCCTGGTCTGAGAACTACTGCTCTAG  
GATGACCTTCTTGCTGCTGCTCACCAGCCAGCCTTCTGGCCCCATGAGTATTCTTGGTC  
TTATTTAACCTATATCCCCCAAAGGCAAGGATTTAGAGGCTATTTGGTCAGTCTTAGAAA  
ACACTACTCATGCCTAAGAGTACCTGCCCG

## Sequence 931

GGTACGCGGGGTGACTGCTAAGACTGCCGGGGCTGCTGCCTGCTGCTTCTCGCGCCTGTC  
CTCTCCAAGATGCAGTTTTTTGATGCTGAGGAGCTCCTGGTCGATGAAGAGGATGATGTT  
TTTGGTGAAGGTAAATGCATCTTCTGGCAGGAGGCTCTCCGGTCTGCTTTGCTTTGNTT  
TGACACCACTGGACACTTTTGGCCAGCTTGGGCAAGGACTTGAGTATTTTGAATGATAA  
AAACAAAGCATCCTGAGTGAGGTAGTGGCTGCAAATATCAACTTANGCACTGAAGGAATA  
ACAAGGCAAGGGGTGGAACAAGGGTTGAGTCATTCCCGCAAATACATTTTTTAAAGTC  
ATGACTAAATAAAGGTTTAANTTTANGCNGGAAAATAGTACCT

## Sequence 932

AGGTACGCGGGGCACGTCAGAAGGAGAGGCCTCTGCAGACACGGAGCACACGTGTGTTAT  
CAAGCGGGGCTGAGGAGTCTTCAGCTGAACCGTGACCTGAAGATGCCCATGACTCCATG  
ATCAGATAGAACTATTGAGCTTGGCACCTGGGGCTCTGGAAATCCAGACACTAAGTTGT  
GATCCTGGCACCACCTTCCCTGGAAACCCGTATNTGGACATGCCACATNCTTCCGGCTTT  
GTGCCTCTTGTCTGGATTTCTTGGGACAGACACAGCAAAGCCTCACGTGTTCTGAGAAGT  
GACCTGGCCTTCCACTGACATTCTTGGCTGAAGTTTTCAACTCAAGATGGTCACCCCTGCT  
TATCACACAGAACCAGATGCTTCAGCACCTTGGAGAGCTNCACAAGACCCACAGACCCCG  
GCCCCCAACCACAAGAAATATAATAAAATACTGCTTTGAGACTCAATTTANGCACTTA  
GCTACATAAATAAAAGTTTNCAGGAAGACTAAATCTTAGAACCAACAGGGAGATGAGCAC  
TTCCAGAGTTTTTCATCAGCTTTCCAAATGATATTTTAAATATGANGAACGTGAGGCCTGG  
CTTGGGCCTGTGGGGGAAAATTTTATTACAGCATCCTTGTAATAAATGCTTGAAAATTC  
ATGCCAAA

## Sequence 933

AGGGCGATTGAGCTCCCCGCGGTGGCGGGCGCCCGGGCAGGTACTTTCTTTTTTTTTT  
TTTTTTTTTTTTTTTTTATTTCTGGAGCTCTGCTCTGTAATAAGAGCTAGAGTGGATGG  
GCCTGACCCTAGATGTTTTATGTANATGAGGTCTTGGTTTGAGAGAAACAAGGATTGGGA  
AAAAAGCCTGTATTTCCAGTCCTAGTGAAACGGGAGAGAAAGAAGGTNTNATNAAGTGG  
AGCAAAAGTCAGACACCAGGGTCCCCACTTAATTTTAGCCCTTGGTCACCACAGCCCAA  
NAGGTTGGTGGGGAGTTGCTTTANAAACACCCANATGGCCACGGGGAAGCCCANCAACAC

Table 2

TGGGGCTGGTGGAGTGCCTNGGCAGACCCTGGGAGAAGGTCAGCCCTTGGCT

Sequence 934

AGGTACTTATCAAAAATACTTTTTACAGTAGCTATTTCAATAGATGACAATCCCTCTATA  
CCCTTCAGACTATTAGATCTCCTAAGGTGTCTCTAAGCATGTAATCTTCAGGGGAAGTAT  
TTGCTCTGCCATACGCATGGGGTGCAATCACAGGCTCTATCCAGACTGATTCTATCTGGT  
GACCAGGCAGTGAGATATCACATCAAAGTTGACTCAATCTGGCTTATTAATGGGGAAAGC  
AGAAATACAGTGAAAGCTGTCAGAGACTTTGCATCTTTTGGAAAACTATCTTACAGTTA  
AACATCTGGAGCGTCTCCAAAAGTGAAGAAGGTCTCTCCCTCCTTGNTGTGCAGCTAAAT  
CATCAGAGCTCTTTTCATTGGAGACCAGTTTCTTTTTCAAAAATTAATTAATAATTAAT  
TNGTTTTTTTTGGAAACCAAGGGTCTTTGGCTCTGNTTGCCCAANGCTGGANTGGCCANTG  
GTGCCAATAACCGGGTACTGGGAGCCTTCCCCCTTNCANGGGTTNAAGCAATCCCTCCC  
ATCTCAANCCTCCGNGTACTANTGGGGCCNNCAGGCATGCCNCCCACNTANCTTGCCCA  
AANTTTAATAATTAA

Sequence 935

GGGGGACCTCCTCGTCCAAAGAAGGGAAGACCTTGTCCGCACCATTGAGAGGCGTGTCT  
CTTCTGGCTGCCGCTCGAGCACCGAGAGCTCCAGCTCGTCTACTGGCTGTGAGGGTTGGG  
CCAGGTCCATGTGCCGGCAGGGAAAGTCTCCCCGCGTACCTGCCCG

Sequence 936

CCGGGCAGGTACTTTCACTCTTGCTCTTTTTTTTTCTTTTTTAATCGATATCCTGCT  
GGCCTGTGTAGTAATTTTCTTGCTTTATGACTTCTCAGTAAGAAACAGTGGATGGTC  
TGATGTGTTAAGAAATGCATATGTAAGGCCGGGCGTGGTGGGTACCCCTGTAATCCAG  
CACTTTGGGAGGCGGAGGTGGGTGGATCACGAGGTCAGGAGATCGAGACCATCCTGGCTA  
ACATGGCGAAACCGTGTCTCTACTAAAAATACAAAAATGAGCCAGGCGTGGTGGCAGGT  
GCCCCGTAGTCCAGCTACTTGGGAGGCTGAGGCAGGAGAATGGCGTGAACCTGGGAGGCA  
GAGCTTGCACTGAGCCGAGATCACCCATTACACTCCAGCCTGGGCCACAGAGCGAGACT  
TAAAAAAGAAAAAAGANGAAGAAGTTCGAGACCAGCCTGGCCAATATGGCGAAACCC  
CATCTCTACTACAAATACAA

Sequence 937

GAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCCTGCAGAATCTACCAAGG  
CACTCTGTAGCAAAGCAGGCCTTCCACCTGTCTCGGGGAACCCAGCTGGCCACCTTGAC  
TCAGCCTCTGCCAGTCACCTCAGGGCTGGCATTGGGAGTCTGACTGCACGCCAAAGGT  
TGTTAAGTGGCTTTCTCTGAAGTCAATTTGAACAGCTGAGTAACTGTTCTTGTCTTACA  
AGGAAAAGAACTCCTGAAGTCATTAGAAGTACCAAACCAGNTTCTTGTTTTGAAGAA  
AGCAGGTAA

Sequence 938

TTGGAGCTCCACCGCGGTGGCGTCTGGGTGCTTCTGGGTGAGATCAGACCTGCCTTGCT  
TGGAGGGGGGGNGGGAGAAAGCAAGAAAAAANNTTTNTNTATGCCNNGNCTTC  
CCACCATTGAGAAGCTCCCATCTTCTNTGCTTCTTGACAGGGCAAATGTGCCANCAAAA  
CCATGTACCTCGGCCGNT

Sequence 939

AGCTCCACCGCGGTGGCTGCCGCCCGGGCAGGTACGCNNGGTGGCGGCNGACNACCCANG  
GGGNNGNNGGNCCATCAAAAAAANNTTTTTTTTTTCTNCCATGGTGGAC  
CACCGGGTTACGGGGAATCAGGGTTCNGATCCNGANAGGGAGCCTGAGAAACGGCTTA  
CCACATCCAAGGGAANGCACGCAGGCGCGCNAATNACCCAC

Sequence 940

GGGCGAATTGGAGCTCCACCGCTGGTGGCGGCCCGAGGTACATTTTTGATGAATTAGTG  
ATTTTAGTGCAGAATGAAACCAACCAAAAAACCAACCAAGAGTATGTAGTTGTATT  
TCTTGGGGTCTCAGATGAGTTGAAGGTAAAGCAATTGTTGTTGAGGAAACAGGCTTA  
GAAGGCCTGGGCCTCTGCTTGTCTTTGCTGGGCACTGGCCACATGANGAAGAAAAGG

Table 2

CCTAAGCCTTCCCGANNAAGTNCCCTGTTGCTCCACCTNCGGGTGCCCCANAAAGAGGG  
CTTGGGGGCCCTAGGGGGTCCCCCTTCTCCCTNGAGGGCNTGACCCCATATCTTCAATC  
CCAACNTGGCNCAANGCNCCAATNGGGGGNCTTGGGCNTTTAAANATGGGTTCTTGGANA  
ATGGATTCCCTTAAAAAATTATTTCTTTTCNACCTTTNGGGAATTTNATNTTTTGCCA  
ANGGTTTCANGTCCCTTCCTTCTNCGTNGTNGGAAACCTTAAANCCAATTAAAAAATT  
NTNNTTGGNCCTTTTTCTTGGAAAC

Sequence 941

ANACCAGCCTGGCCAACATCCTGAAACCCCATCTCTACTAAAAATACACACACACACACA  
CACACACACACACACAAGTTAACCTGGCGTGGTGGCAGGCACCAGTAATCCCACCACCT  
GGGAGGCTGAGGCATGAGAATTGCTTGAGCCGGGGAGGCAGAGGTTGCAGTGACCAGAGA  
TTGTGCCACTGCACTCTGGCCTGGGCAACAGAGCGAGACCCCGTCTCAAAAAAAAAAAAA  
ATTCTTATTTTCCTCATGCTACTCAAGAAGCCATGGGTGGTATGTTTTGATTACTC  
CACCTTTGGTCTGATGTAAAAGCCACTGATGTCNATGGATAAGCAGTGGTAGGATGGTTT  
GAGTTTGGGGATCTTGGAAACACTTGAATTTCTTATCTATGCCCCATTTCTAATAGCG  
ATGGGGAAATGTCTNCTGTACCTCGGGCCCGCTTCTANAACCTAAGTGGATCCCCCGGGGC  
CTGCAGGGAATTCGATATCAAGCTTATCGAATACCGTCGANCCCTNGAAGGGGGGGGGCCC  
C

Sequence 942

AGGTACAAATTATTTCCAGGTGCTGATAATTATCACTTGTGGTGTGTTGATATTCCGGACT  
TTGCATCTAAATTTATACTTGACAAGTTAACTTTTCATCGTGTGCATTTTCCCGTAATC  
TCTCAACAGCCAAAGACAAGGATAGACGGATTAGTGATGGGTGAAACCAATTCAACCCAA  
AATGGCAACACTTAATTACAAGTCTTGTGTTTATAATTAAGTGTGTAATCACTAACTT  
GAAAGTTTCTTTTCAAAGTATTTAAAACCAACTCTTTTCCAGGGGGATTAACTACTGTA  
TATTATTGCATAGTTAAGTATTATTTGTTTGCTCTATGAACAAGATGTGAAATGGCAC  
ATTTTACCGACTATCTTGCTAGCCAAATTTGGGAAAAATGGTTCATGGAATTGGCATTTA  
CCTAGCNCNCCATTTGGGTGCTTCTCAAGTAATTTTTTTGGGACCATTTTTTTNGCCTTT  
AANATTATGNAAAAGCCCAATGGGGAAAGAACCAATNCCAACCTACCCCNAAATGGACTT  
TTTGAAGTAATTTTCTTGAAAANTGGGGAAAANTGGAAGGGGGTCAAAAATTTTCAAAT  
TTTCNGGAAAAATTAAAAAATAAATGGGGNCCCCCAAAGNGTTTTTTTCNGG  
NAANGCCCNCTTTTTTTTTTTGGGGCCCAATTTTTTAAAAA

Sequence 943

CCGCGGTGGCGGCCGGCTTTTACTATATTTTTAAATGTATATATGGTGGTATACAGAAC  
AAATGAAACACGAGACTTTTCAAATAATTCAAGGAAGATGACTACCATGCCAGACTGAAG  
ATGATGTTACTGAATCAGCTTATTCAGTTTTTTTTTTTTTAAAGAAAATTACTTGATT  
TCAATTTGCCACACGTGGTGGCATACTTGAATCCCAGCTACTTGGGACTACAGGCAC  
GCGCCACCGCGCCCGGCCCGCGTACCT

Sequence 944

CGCTTTTCCAGGTGCGNGGGGAAAACCTGTCGTTGCCAAGCTGCCATTAATGGAAATTCGGG  
CCCAACCGCCGCGGGGGAANAGGGCNGTTTTGCCGGTATTGGGGGCGCTTCTTCCGG  
T

Sequence 945

AGGTACGCGGGAAGTCTAAACCTTTTTGACAATACTACCCTACCCTGGCCAAATACCAT  
CAGAAAAACCCACCCACCCACCCCAAAGAAGCAAATAACAGTGCTCTCACTCCCCAA  
CCCAGTGGTGTGGGCTGGGGAGATCAGAGACCTAAGCACCCATTTCTTGGCCAGCAAAA  
GCAGACAGCACTTTGGTTCCCCCTGCTGGGTGGTTTTGGCAGACCAGGCAGGAAGCGTTT  
TCCCTCATTTCACTTCAAGCTGAAGGAAGTTATGCTCTTGCCAGGGTGGTGTCTAGCAGC  
AGTGGGGTCTAGTAGCAGATTGAGCCTCCACCCCAACCCAGAAGCAATGACACTTAACAA  
GGTGACNGTGAGCCAGGGCTAATCCATACTCTACCCTCACCTTACATCAACGAGGCAGAA  
CAAGATGGTTGGAGGTAGGATTCTAACACATCTTACCTCCATTAATGTCAGTGGGGNCC



Table 2

CAGTGGGAGAACTTGAGCCTTNACTCCCATTCTGGCAAAGTGGATGGGTGGNCAAGGGGG

## Sequence 946

AGGTACACAGCGTGGTAAGGAAAAGTCCAAAACCTTTGGAAAGAAAGAAAAATCCTCCATC  
ATTTACTAATTGGGTGAGTTACTTGCGGTAGCAGTTGAGCTGAACACAATCCCCCATC  
TCTGGCAACTACTCCCAATACACACGATACCCGGTGGGCCCCGATGCCAAGGCCAAAGGG  
GGATTCTTAACCCANACTGAGCCAGCCAGATCTTCTGTGCGCCCAAGTATGCATATGCC  
CGTGTTCTGTCCCCGCGTACCTGCCCG

## Sequence 947

CCGGGCAGGTACCCTGCAGAATCTACCAAGGCACTCTGTAGCAAAGCAGGCCTTCCACCT  
GTCTCGGGGAACCCAGCTGGCCACCTTGCACTCAGCCTCTGCCAGTCACCTCAGGGCTGG  
CATTTGGGAGTCCTGACTGCACGCCAAAGGTTGTTAAGTGGCTTTCTCTGAACTCATTTG  
AACAGCTGAGTAACTGTTCTTGCTTTACAAGGAAAAGAACTCCTGAAGTCATTAGAAC  
TCACCAAAACAGTTTCTTGTTTTGAAGAAAGCAGGTAATGTGGCTTTGCCAGCAAGAA  
GCAGGCCTTGGGCGTCCATCTCCTTCTCAGGTGTGTTTACTCAGGAGAAGGTGACATTTG  
GATAGGGGCAGGTGTGTTTGCTGAACTGAGCTTCAGTCTAATCATTCCGAAAACCTTCT  
GAGACTTTCTCTGCCCTGTAATTTCCCACTGTTGATGGAAGTATATTGCAGTCTCATGC  
AGGACTGCGAAGGGAAGGTCACTCACTAGATCACTTATATACCAAATCTGGGGAACT  
TTTGGTGCATATTATACCTTAGATCTCTTTCTTTAATGATAATCATTGAAAATATTAC  
CATGGAATAAAATCTGGACTTTAGTTAATGGTAACATACCAACGTTGGTTTCTTT

## Sequence 948

AGGTACACTGGCTGTGCTGTTTCTAGCACCATAAGGCAGTCATCATTATTGAGCCAGGGG  
CTGTGCAAAATTGGGGTGATTGCAGAGCCAAAAGCGGGCTGGAGGGTGGTTTCTGGAAT  
GCCTGTTTTACTATTCTTCTGTTCTTTGCTCTTTCTGCCAACTTCAGAATCCTTCCTT  
TCCTTAAACATTTAGTGATATCCCTGAATTTATTTAATTGCTACGTGAGTGATTTTTGC  
CCCACAGCACTGGAAGATAATTGGAATGCATTCTAGCTTATGTGCTCTGGATAATATGCA  
ATTACCAGCCAGCTGGAGAGTAGTATGCCTTTGTCTCACAATGTCTTGTAATTTTAAAAA  
GTNTTCTCCTATTTGCTGGTGTCTCTTGNTACCTTTCTTACGGCATCATATATCTACTNT  
GGGGTCTCTATGTCTGAATGTGTAGACACTTCTTTTGGTATACTGAATAANCTCCTGGC  
GATGAGGGAAGACACCGCTTTGTTTTAGNGATGTCCTGTGCAGTTGGGCCCCAATAAAAC  
GCTACGGAAATGATGGGTGATNAGACTTATTTCTTTAGATCTTTAAATTTGGGCCGATNG  
AATAACNNCCANGTTTTTAGAAACCCATANAATTTTCNAGAAGGAACCTTTTCNGAAAA  
AGACCGGAAANACCCCTTCTTTTCTTTGAACCAGGNCTGTCCCCNANGTGGNCAAA  
NNTTGGAGCTTNCCNTGGGGGAACCGGGCCCTAAAATNNGGGTTCCTATNNTTCANTGN  
TTNCCNNACTTACCAAAAAAAA

## Sequence 949

CCGGGCAGGTACTAAGTTGAAGTAAAGCTCACCCCTTTACTTCCCTACTTGAAAGTTCTAC  
TCTGAGCCTTGACTCTTAGCCACAGTGAGGCATGTTGAAGGTTCTGCTGGTTTATTCTT  
TTTTTTTTTTTTTAGACAGAGTCTCACTCTGTTGCCCAGGCTG

## Sequence 950

ATCAGGGCGATGTAAGAAAGGTCAGACACTGCGGATGGGTGACTTCAATACGCTTCAC  
GCTAATAAATAATTGATCCAGTGCTGGCAGTTGTAACAGCATCAATAATCGCTGGTGTA  
GTGTGAGGCTTTTACTGCATCGCCGTTATGCCAGTGTAGGGTTGAACGAAGATAAAAGT

## Sequence 951

CCGGGCAGGTACTGGGGATTGATTAGCCAGTCTTTGCCACAGACTCTTTGGACTGAGT  
CGATAGGTCAAAGGTTAGCTTATGCAGTAGCATGGGCTGTAGGTTTTTGCAGTGATCAA  
CACCGGAACTTTTAGAAGACTTTTAGAAGATTTGTTGCTGCTGTGAGTGACATCAGTTCA  
CACAGCCTGAGAGAGAACTCTCAGTCCATGCTGTCCCTCCGTGGGCTCACTCAAGCGAAA  
TGGGTGAGCTGCAACACTGTGCGGTGCCAACCGGGAGAAATCTGCCTATCGGGGCTGAG

Table 2

AGACATNCTGTAAGTGGCTGCCCGTCTCCTTTGCCCAAATGTCAAGTTGGAAGAGGTGC  
TTCACATATTTATTTCTTCTACATGGGCTCATTTATTTGTAAGCCCATTTGTGACCCTT  
TGGAAAGCCAAAGCTTTTATCTTGATTTTTTGGAGTGTGGAACAAANGGTGAACNAGNTT  
GTTCTTCCNGGATTGACANGGGAATCTTGGACNTTTTTGGTTTTTGGCT

Sequence 952

CAGGTACTTTTTTTTTCTTTTTGTATTTTAGTAGAGACGGGGTTTCACCATGTTA  
GCCAGGATGGTCTGTATCTCCTGACCTCATGATCCGTCTGCCTCGGCCTCCACAGTGCT  
GGGATTACAGGCATGAGCCATCGCGCCCGGCCCTCTGGTTTTACTGTTATTGNGCCTCAG  
CTTTTGTCTGATCCAGGGCATGGCCAGTCAGAAGAATGGACATTCATCCTCCTGTGTCT  
CTATAGGACAGTGTCTAGTCTTCAGCAAGAGAGGAAGTGACGAGGGACTCACAGATGTTA  
TGCAAGTCCACTGTTCCATATGATTTCTAGTCATGTAACCTCCTCCCTACAGCCCAGGGG  
AACATGCAATGCCTTAATTAAATGTTCTGAGTTAGCTTAAANAAGCTTTTTTATTATTT  
NGAACANATATGCTTTTGGGAACAACNGAACCTGGGATTTTAAAAAACTTACCTTNC  
TATATTTGGGGAATTCTT

Sequence 953

CAATTTTNCCTGTAGTCTNTTCTTCANAGATGAGTAGGGAAATGGAGATCAGCACATA  
CCATTTGTAATTACATGTTATAAAACATTATTTCCAAAGCCATATGTTACAATAACTN  
ATGTCAGATTNCTTACATTTNTATTTACTTTTGTAGAGCCCATCTTTATCCAAATCCTTA  
TATTTCTAAAGAGAATAAATAAGTGGTACTGAAAATTAATATCACATAAGTCTTTAA  
TAACATTTTATTAATAAGTGTCTAATTACATTTTCTAGAGTATTCTTAGGTTATTGGCAAGT  
ATCCCTCTTCTTGCATATATGTCTTCAAATAATTGCAAACCATNATTCATATATATCTG  
TGTTATGCTTNNCGGGGGCTTTCTCCCTAAATTNTATNTGGTGCCTATTTATTGAACTAC  
TTATTATACAGATTGGAGCCATCCCTAATTAGGAAANATCCCAAATGCTCCAAATCCC  
AAACTTTTNTGAACACTTGACATGCTCACATTGACCATTGGCAGGNATTTNAAAATTTG

Sequence 954

AGGTACCTTTGGTAGAATTCGGCTGTGAATCCATCTGTTCTGGGGTTTTTTTGGTCTGC  
TGGAGTTTGCTGGAGGTCCACTCCAGACCCTGTTTCGCTGGGTATCACCAGCAGAGGCTG  
CAGAACAGCAAAGATTGCTGCCTGTTCTCTCTGGAAGGTTCTGCCAGAGTGGCACC  
CGCTAGATGCCAGCTGGAGCTCTCCTGTATGGGGTGTCTGNCGACCCTTGCTGGGAGATG  
TCTCCCTGNCAAAGAGGCACAGGGNTCANGGAACCATTTGAGGANACAGTCTGTCCCTTA  
GCAGAGCTCAAGCACTGTGCTGGGGAGAATTCTCCTTNTCAGGATCANCTTGCTCTCTTC  
AGAAGCCAGCAAAGCAGGAAAGTTTTAAANCNCGCTANAGCTTGACCAANCAGNTTTCN  
CCNTTCCNCAGGNNGCTTCTNTCTNAAGGAAAAANGGGTNNTTTTNTATTCTGNANAGC  
ACTTTGGAAANNTNGGCATGCNTGACCTTTTNNTTTTCAANAAAAANNCCNCTGTGNAAT  
NNGNANGACGGGAAATCNTNTAANNNGGCNNATTTCTGNGANCCACANNACCNNNTTTT  
TTTAAATGNGTGNNTTTGNTTTTTNATTTCCCCCCCCCANNNNGNAANCCCCCCCCNNTG  
ANANTCTCNTAANAGGGTNCNTCNCCCAACCCCNCCNCCCGGNCNNTTTTTTTTTNC  
CCCCCCCCCCCCCCCC

Sequence 955

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTCCTGAGGACTTTTT  
ATCTGAATGTGCAAAGGTTGCATCCTTTTGTGAATATCCAGAGTTTGGCTGACCAGGACT  
GGCTGCTGAGCAGAATGGCTTTTAGTCAATGAACCTTGGGCTTCGTATTTACTTAGGCTG  
GGGAGTGGAATTTCTCTCTGGTGACTTTTCAGTTAGATGATCTTCTGACCTCCTCTCTAAC  
GGGCTTCCATTGACTTGCTCCTCATTGCTGCCCCCTCTGCTGTTTGTGAGCTGCTCAGCC  
TGAAGTGCCTCTGGGTAAAGGCGCTTCTTGTCTCCTCCTAATAATCTGCTCACCCTTG  
TTTTGTTAATGATGTTTAAAGGCGCTGGGAGTCGAGTGAAGCTTCTGGTAGAGGCCACAC  
GCGTTGCATACATATCCGCCATTTGCATTCTTTCGCCAGAGAGAGGTCTTTGTGTCAGG  
CAATTGGCACAAAAACACCGGAGCCTCTACGCCCTCCGTAACAGGGACTGGGATTCATCC

Table 2

TTGGACTTGTCTTTCTCCCGATGCAAGATACTGCTGGGGGGA

Sequence 956

GGGGGACCTCCTCGTCCAAAGAAGGGAAGACCTTGTGGCACCATTGAGAGGCGTGTCT  
CTTCTGGCTGCCGCTCGAGCACCGAGAGCTCCAGCTCGTCTACTGGCTGTGAGGGTTGGG  
CCAGGTCCATGTGCCGGCAGGGAAGTCTCCCCGCGTACCTGCCCG

Sequence 957

AGGTACTTATACTGAAATTCTAGTCTAAGAGATGGATTAAAGAGGACAATGTGTAAGCTG  
ATACAGTGTGGAAAAGATGGGATGGAATGGCCCCCAGGGTGTGCTGATAGAGAAGAAAGGAC  
CAGGCTGGGGAGATTGAGTGGAGGAATGAGTGATCATAAATGAGCAAATACTTTGTCCAA  
AAAGCCCCTCAGAGAAAGTGCAAGGGACGTAGTTGGGTGGGTGGTTCAGGGAGTAGCTCAA  
GTAATGATTTGAAGCTGAAGTCAGAAGGAAGTACCCACATTTCTTAGAAAAGAACTATA  
ATGGAGAGCTCACGCTTAGCATAGAGAGGGGGTAGAAGAGGAAGAGTGTGACCAGAGGAG  
GTTTCAGTGGCTGGGGAGAGAACCACGGGTCCAAATGTTGTGATGCAGGGGACTCAGAGG  
GTTACATCATGCTTTAATGATTGCTACATTGCCTGAGTCTGATACAACAATGAAGGTCAG  
TTATACACTTGAAGTATTGCTTATCTTAGGACAGTGGGTCTCAACTGGGGGGTATTTT  
ACCCCCAAAGATGACATTTGACAATTATTCTAGAGACCTTTTNGTTTGTCCACCTATTTT  
GGGGGANCCAGGGTTTC

Sequence 958

GGAAATACATGAGGCGGTGGGTTTGAAAGTCTTTTCTTAATTTGTAGTCAGAGCTTCATA  
ACTGGGTGAGGCAAGAGAACATGTGATCAAGAGTCAATGTGATGACAAAGAGAAATAGAA  
ATCACTATTAAATTACGGTGTTCGAGAATGGTGATGTGATTCCAGTAGAGCTTGAGGGGG  
AAGATGTTACTAGAGATTGAAAGACAAAGGAGAGGTGGGGAGTTGGGGACAGGTTGAAGA  
GTTAGTCTGTATGATGCTGTGGTTTATGAATGGAGAAAAAATTGTGCCACACTAGAGAAT  
ATCAGCTTACAGGCTTTTTTTTATCCAACTCATTAAATATAGTGTGGAGAAAGATGAGCA  
AGAAATAATTGATTGTTTTTGAGTAAGAGCTAGTTAAAGAAATTTGGCTTGTAGAGAGTG  
AGAGAAGACTANATACAGAGAGTGGCCCCACGATATTGCTTAGTATTCCAAATTAAGTTT  
TTAGTTGACCAAAAAGAAATGGTGCCAGGGTTTTTAGAATTTTAAATCTTGGTTTTATTT  
TGGGTTTTTCATCACCTGNTTTTCTTAACCTAANTTTTATGTCCNTATTTATTATTGCG  
CTTTTGTGGGGGNTTTTC

Sequence 959

CCGCGGTGGCGGCCGAGGTACTGCAAAAGGCAGATGTGAGGCAGGGGTGGAAAGCAGGAA  
CAGGGTTTGAAAGAAGTTCTTAGACCCTCCCGGTTCTTGCCCTGAGCCCACGCCGTCAC  
AGAACCACCTCTTCTCCATTTCTGCAGGAGATGGTTTAAATCTCTGGAGATTAAATCAG  
AAACATTCAGGAGTTGGGGAACCTGGGCAGGCATGATGAAAACAGAGGGATCAAGTAGA  
AGTCCTCAGGCTGACACCCCCAGCTCCGCCCCAGTCATGCCTCCAGGGCCTTGGCATCTC  
ATCTTATCATCCTTGGGTAGGTGATTAAGGTCTCATTAAATCAGGGGGATCCCCTTATAA  
AGTTAACTTGGTACCAATATCCTATGAGTGAAAGCATTTTCATTTTGACCNCGCCANNATG  
TNCCCTCCCCGGGGCGGGCCCCGTTTTTAAAACTGGGGGGNTNCCCCGGGGNNNTGGNG  
GGGNAATTNCNAAATTTAAANGGCTTTTTGGGAANCCCCGGNNNCCNTTTTNGGG

Sequence 960

AGGTACGCGGGACTGCTCTTTTGTCTTAAATTTGGGAATTGTCTGCTTTATTTCTTC  
TTATTTTAGAACAAACATTTCCAACATTTGAAGTTGCATAATCATAAATTTCAACATAGGG  
GGACAAATATTTACCTGTTTCAATTTGTATTTTAGTAGAGACAGGATTTCAACATGTTGG  
CCAGGCTGGTTTTGAACTCCTGATCTCAAGTGATCCACCCGCCCGGCTCCTAAGGTGC  
TGGCATTACAGGCATGAGCCGCCA

Sequence 961

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTAAAGAATGT  
GCATTTATTTGTGGGGAGGAGAGGAGGTCTAAATAGACAATAAACATATAAATATTAATA  
TTGTGAAAGTGGTATGAAGAAAAATAAGCATGATAAGGAGAGAGAGGTGTTCCCTGGCT

Table 2

CTCCAGAGGGCTGAGGTGGAAGAAAAGGACTCCTGTTTTAGGTAAGATATCAGANAAGAC  
CTCTCTGATTGACTGAAATGTATGCAAAGGCCTGCATGAAGCCAGGGACCATGCCGTGCT  
GACATCTGGGGGAGGATTATCCTCACAGAGGGGAAAGGAAGTGCAAATGCCGTGAGGTGG  
GAGGACCATGTTTGGTATGTTTCAGGGAGGAACGGGGA

Sequence 962

CGGTTATCCACAGCAATCAGGGGGATAACGCAGGGAAAGAACATTGTGAGCAANAAGGCN  
CAGCAAAAAGGCCAGGNAACNCGTAAAAAAGGCCGCTTGCCCTGGCCGTTTTTCCCA  
TTAGGCTCCCGGGCCCCCTTGACNGNAGCCATNACAAAAATCNGACCGCTCNAANTCAN  
GAGGGTGGCCGAAAACCCCNACAGNGACCTATTAAGATAACNAGGGCGTTTCCCCC  
TTGGGAAGCTTCCCTCGTGCGCTTCTTCCTGTTTCNCGACCCCTGCCGNTTACCGGGATT  
ACCTGTCCCGCCTTTTCTCTCCTTCGGGGGAAAGGCCNTGGGCCGCTTTTCNTCAATN  
AGCCTCAACCGCCTGGTANGTTATCTTCAAGTTCCGGNTGGTTAGGGTTCCGTTTCCGC  
TTNCCAANGCTTGGGGNCCTTGTGGTNGCCNANCTGAAACCCC

Sequence 963

CCGGGCAGGTACTTCAAAGCCCCACTTCTTTCCCTTAAACCAACACTTATTCCAAATGACA  
AACTCCCTCAATTACCCGTAACATTAATGTTTATACTCGGCATTTGTAATACAATAAAAC  
ATAAAATGTTTATACTCGGCATTTGTAATACAATTTATATTTTAAAGTTTCTGATATT  
GATGTATCAGATGTTGGTGCTTATCAGATAAGGAAACAAGGGTCCGAAAGGTTTCTTAAC  
TTCCAAGAGCTGAGCAGGCTGCTAACCTGGTCTGCTCATCTCCTAGTGGGATTTTTTTT  
TCTCTTACATGGCATACTTCTCTGCCATCATTTTTAAACTCTGAGGGGGAAAAGGAGGC  
TAAATGTTAATCATGCTGTGACCAAGTAAACCAAAGATGCAGTGATTGCTAGTAGGCTCCAT  
CGTCGGCCCCCTTGACAGGTGGTGGGGACATATTACAGGGGTGGTGGATATCAGTGAGCACAG  
CCCCTGACTGGTGGCTGCCCATGCAGAGTGTGGGGGTGGGGAGTAGATGGGGGGCTTTTC  
CTAATGCATCTAGCCCCAGTGGCTCTTTGGCTTCCTAG

Sequence 964

CGGCTTGCGGGCGAGCCGGGTATNAGGCTCACTCAAAGGCCGGGTAATACCGGTTATCC  
ACAGTANATCANGGGGGATAACGACAGGGAAANGAAACATGTGGAGCAAAAAGGGCCANG  
CCAANAAGGNCCAAGGNAACCCGTAAAAAAGGCCCGCTTGCTTGGCGTTTTTCCATTA  
GGCTTCCGCCCCCTGACGAAGCCATTCAACAAAAAATCCNACGCTTCAAGNTCAAGAG  
GTGGCCGAAACCCCGACAGGGAATATANAAGGATACCAGGCGTTTNCCTTGA

Sequence 965

CCNTTCCCCCAACCCGGNCGGGGGTTTGGGGNCCCCGGGNCCCCCGNAAAGATTNTTTTC  
CCCCCCCCCAACCAACCCCAAAAAGNTTCCGCCTCCGGAAGGCCCGCCGNTAAAGGNA  
ACTTTTCAACCCAAAGGACGCCGCTCCNCAATTTCTTTTAAACCCACCGCCCCAAAAA  
CCCCCANCCCCCACCNNNGGGNGGGTNAANCCCCCTTNCNGGGGGCCCCCGCCNTTCC  
TTTAAGGTAAAAACCTTAAGGGTTGGGGGGAATTNCCCCCNCCGGGGGGGGCCTTTGGG  
CTAAGGGGGAAAATTTTCCGGAATTAATTTCAAAGGNCCTTTTAAATTCCCGGGA  
ANTTAACCCCCGGTTCCGGGAACCCCCCTTCCGGGAAGGGGGGGGGGGGGGGGCNCCCC  
GGGGGTAAACCCCCCAAGGCCTTTTTTTTTTGGTTTTCCCCCCTTTTTTNNATTG  
GGANGGGGGGGGGTNTTAAAAAATTTTNGGGCCCGNCCNGGCCTTTTGGGGGCCCGG  
GTTAAAAAATTTCCCAATTTNGGGGGGTNCCANTTTAANAGGCCNTTGGGNGGTTANTN  
CCCCCTTTGGGTCNGGGTTGGGNAAAAAAATNTNGGGGTTTTTAAANTTTNCCCC  
GGGCNTTTTCCAAACCCAAAANTTTTTNCCCAAATAAACCCAAAACCAATTTAACCT  
TNAAANNGCCCCCGGGGGGGGAANGCCAATTTAAAAAAGGGTTNGGGTTANAAAAAAG  
GCCCCTTTNGGGGGGGGGTTTGCCCCCTTTAAATTTGGGAAGGTTTNGGAAAGCCCTT  
AAAAACCTTTNCAACCAATTTTNAAAAAATTTTNGGGCCGNTTTTGGGCCNGNCCCTT  
TAACCTTGGGGNCCCCGGGNCTTTTTTTTTCCCAAANGTTCCCGGGGGGGGA

Sequence 966

CGGGGNTGGGGGCCGGGGCTCCGGAAGNGGGTAAACCTNTNTATGTGTGCTNTNTCT

Table 2

NTNTCTNTNTNTNTNTNTGTGTGTNTGTGCATACCAAAAAAANAACCTGGGTNTNTNAA  
TNNTNAAATTAACCCAGANGNGTNGGGAGGNTGTNTTTNGGNAAGNGTTCACCGAGAATT  
GGGGGGNCCTTTTTAATTCCGCGGGTTACGNGAGAATATNTNCNTAGGGNTGAAGACTGC  
AAGNCCNGCCGNGGGCCTAACCCANGGGNGNCTCCTTCCCCAAAAACCTTTTNTGTGG  
GGAAACCTTCCGNCCAACGNCGGNACCGAAAGGGGGGGTTCAAAGGCCTTTAACCCNACN  
CCNAGGGGGGGTTCCCCGNGGTCCAATTAACCTTGNGNANTTGTAGGGAAATNGGTACCN  
TTNTTGAATACCNTACACTTNTCCTTGTTGGGGAAGAAGGGCNCCTTTTAATCCCCAA  
CCAATTAATTTTTTCCNTNGGGGGGTNAAAATTAAGGGGGGGCCCCAACCCCAAGNG  
GGGGCCNTTTTTTTGGNNGGAAGATAATTGGNNGNAACCTTNGGAACCGNGGGAACCT  
TAAAGGCCCNAANTTAATAAAAAATNTCNTTGGGGGGGNCNCCANCCNGTTTGNNAANC  
CCCAANCCCCAACCNCCCCCTTTTTTAACCNAGCCGGGGGGGAACCCANCNNGGGGGA  
ATTNGGTTGTTTTAAACCANCCCCCAAGGNCCAAGAANAATTCNNGGNNTTTNCGCN  
TTTTNGCCCCCGNAANAATAAAAAAGNNCCCGGGGAAAAAACCTTTGGGGTCTTTCNCAA  
AGGCCAAAGGGCTTTTTGGTNAACCNCTTTGGCCCCNCCGGGGGTCCNNGGGCCNCCGN  
CTTTTTNTTAAANANAACCTTANGGGGNGGGGGAAATACCCCCCCCCCGG

Sequence 967

CCGGGCAGGTACCTTCTCTGCATGACTTAGAAGAAAATTAATTTTGGTTTTTGGACAGTC  
CTGTTGACACTTCTGTTTTGTATTAAGTGATGAATTCCATGTTAAATTTATACTGGCCAG  
TTGATAGTTACCAAGGAAATGCTAGGCTCCTGATTCCAGTCAGTGGGTTTGATATCCTA  
ATCTGTGCTCTCCTCTCTTCTAGAATATGAGTGTCTGCTGTATTGGGAGCACATTGCT  
CAGTCTTTGAGTTATGCTCAGTTTCTTAATCCAGAGAATAAATGTGTTGGGTGCTGAG  
ATTTTAGAGCTTTTCTGTAAGGTCAATACACTGAGAGAAGGCTTAATATTTCTATCCAT  
TGGTATTTTCCAGAAAACCTGATTTGCTTTTACTTTTTTTTTTTTTTGGACGGAGTTT  
CGCTTTTGTGGCCAGGCTGGAGTGCAATGGT

Sequence 968

AGGTACGCGGGAGGGCAAAGGGAGAGAAAAGAACTGGACAATAGGCATTACATGGTTTTT  
TGGGTTGTGATGGTGAGCACAGTGATGTGATTATGAGGTATCAGTCAGTTTTGCTATAAA  
GGAATACCTGAGTTGAGTAATTTATAAAAAGAAGAGTTTACGGCTGGGCACAGTGGCT  
CATGCCTGTAATCTCAGCACTTTGGGAGTCGGAGGTGGGCAGATCACCTGAGGTCAGGAG  
TTCGAGACCCAGCCTGGCCAACATGGTGAAGCCCCACCACTACTAAAAATTCAAAAAATN  
ANANAATAAAAAANGTTCCTGCCCGGGC

Sequence 969

CANGATGCCTAGGTATTAAGCTCTAATTCCGAAGGGGGCTTTAATGTAAAAGAGGTAA  
GAAGGTTAGCCAGAAGCTGAAATGATTAGGTAAGAAAGTTAGTTGTTGCTTTGTAGCTAC  
AAATAAAATTTGGTGAGTTCATTAATAAGATGTTTCCAGCCAGGCGCAGTGGCTCAAGCC  
TGTAATCCAGCACTTCGGGAGGCCGAGGCAGGAGGATCACGAGGTCAGGAGTTGAAGAC  
CAGCCTAGCCGGGTATGGTGAAACCTGACTCTACTAAAAATACAAAAATTATCTGTGTG  
TGGTGGTGCTCGCCTGTAGTCCAGCTACTCGGGAGGCTGAGGCAGAAGAATCGCTTGA  
CCAGGAAGCAGAGG

Sequence 970

AGGTACTGACTTTTGGAGTTACTTAAGAACCACAGTTCCTAAACATTTTATTTGGGAGC  
TCAACTTCTGGCTTCCTACTTACCAAGAGGCAGTAAGTTATAACCTCTGGCCTTTGTCTT  
TACATTTTCAACTTTCTGGATCCCTAACCTCTGGTCCCAAGTTACTACGCTTGCCTATAT  
CCACTAACCCTCACTAGGTCACAAAGTTGATGGCTCTGGCTTGACCCAGTGAATGAGAA  
GTGTCTAGATGTTTTTTTTTTTTTTTTTCGCAAAATCTTC

Sequence 971

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGAGGGCAAAGGGAGAGAA  
AAGAACTGGACAATAGGCATTACATGGTTTTTTGGTTGTGATGGTGAGCACAGTGATGT  
GATTATGAGGTATCAGTCAGTTTTGCTATAAAGGAATACCTGAGGTTGAGTAATTTATAA

Table 2

AAAGAAGAGGTTTACGGCTGGGCACAGTGGCTCATGCCTGTAATCTCAGCACTTTGGGAG  
TCGGAGGTGGGCAGATCACCTGAGGTCAGGAGTTCGAGACCCAGCCTGGCCAACATGGTG  
AAGCCCCACCACTACTAAAAATCAAAAAAAAAAAAAAAAAAAAAAAAAAAGGTCCTG  
CCCG

## Sequence 972

CCCGGTGGAAGGAGGGGCCCTAGTCNGCAACAGCTAATCCGTTCAAGCTTTACCTTCTTTG  
CAGACTTTGGTTGGTGGAGGCTGTGGCAATGGAACANGCTTGANAACAGGAATGGTAGT  
GCTATTGGCCTTNCAGTCCCACCTATCACAGCCTTAATCACCCCAGGTCCTGTTGTCAT  
TGCCAAATTCCTGACTTGCCCTGTGGATGGGAGCCTACTCTNTGAATTCCTTTTTTTCATC  
TACCTGTTGGTTGCTATTTTCATTACGTACCTGCGGCCGCNCTAGAACTANTGNGATCCC  
CCGGGCTTGCANGTAATTTGATATTAAGCTTATCGGATACCCGTTTCNACCTTNGANNGGG  
GGCCCCGGGNACCCAGGCTTTTGTTCCTTTAATTGAGGGTTAAATTGCTCCCNNTTNGG  
NNGTAAATCAATGGNGCATAGNCNTTGTTCCTGNGGNTGAAAATANGTTATTNCCGCC  
TTCNCAATTTNCCNCCACCAACAATAACGGAAGCNCGGGTGAANCCATNNAAAANTNG  
NAAAAAGCCCTT

## Sequence 973

CCGGGCAGGTACTCATGTCTGTGGAGCAGAGATGCTGACTGGGAATAGAGACGCTGTGCG  
TCGACCACGGGCATGGCCTGCGAGGGCCCTGATAAATGGCATCGGTAGTTTGATGTGGAA  
ACGTGTGCTGGATTTATGCTCTGTATTTCATCCCACTTCTCAGGTTCAACTGCTTTCATCA  
ATTGCCCTTCATTTGAACTACACCATAAGTTACAACTCACGTCAATGTAAGGTGTTGTGA  
TTTGCAATCTGAGCAATGATGTTTACTGTGCCTTGAACCTCAGGATGAAACAAGACATC  
ATTGATGCAGGCAGTCAACTTTCAGTGAATTGACCAGCATATTATTTAGGCTTTGAATT  
AATGGTGTCTAGGAATTTGATGACTATTTTAGACCACGGATACCGTGCTACCTATGAGA  
TATGTTTGGGCATTCTTCTAAGGCAAGCAGTGGAGATTTTATGGCACAATACAGGGACA  
ACAAGGATGTATCCCCAATTTTCTAATTACACTTTAAATTTTTTTTATTTTCATGTGA  
AAACGTTTGGGGGAAACATCTGTATTACATCAAAAGTANGTTTATCTTGTGCCTCAGT  
TGATTCTTGGAATCTGCTCTTGGGGTTTGGCC

## Sequence 974

GGGNACNGANGAAAAACCTGTCATCCAATATGGGAGCTACTAGTCACATGCGCTATATAA  
ATGCAAATTGAAGCTGAATGAAATTGAAAATCTAGTCTCTCAATCATATTAATCATATTT  
CACCTATTGTATAATGCAAATGTGGAACATTTCTATCATCCCAAGCATTCTACCTAACTT  
TGGACAATAGTACCCCTTCTGGGGAAGAAAGTGAGATTATCCTTAGGGGAGGGAAAGAA  
GGGGTTATTTTAGGGCAAAAAATAACTTTAAGAATTTACCCTCTGTATGTCACATTATGTTT  
TTTATTCCTTTTACCGACAAAAAATGTTTTTCAAGTGCCCATTTTGAAAAAACTGGAAAA  
AAAAAATCAAAGCCCTACAGTTGGCATTATCATGGGGGATGAAAAAGGGAGGGGAAAT  
ATGGGTCAAA

## Sequence 975

AGGTACCTTTTTTTTTGTTGTTGGTGAAGTAGAATGTGTGTATGGGGAGGGCAGGTGGAT  
AGGATATTTTGAATTTGAAGAGAATGGGAATGTCTGGATAGTGCATGTATAGAATGGGA  
AGTAAACACTGGAGGACCTGGGAGTGTGGNGCTTATTGATGGATCGTTGGGTTTATCCAG  
GATTGGGGTTTTGCCAGATGGCTGTGATGAAAATCTT

## Sequence 976

AGGTACTCGGCCTACTTCCCTATTTTCAATGCCTAATGATTTTTGCTGCGCCTGAACACA  
TCTGGAGGGAGCCAGGCCCACTGGCTGCCTCTCGTCCCACTCCAGGCCCTCCTACAAAGG  
TGCACTCAGCAAACCTCCAAGTACCTGCCCG

## Sequence 977

AGAGACCGGGTCTCACTATGTTGCCAGGCTGGTCTCGATCTCCTGACCTTGTGATCCGC  
CCACCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGCGCCTGGCCTCCTT  
TGTTTTTAATTAAGGAAAAGGACATCAATATCTCCATATTGAAGGGAGTGGAAGGCGGG

Table 2

ACTAATTATATATATTATCTTTTACTTCCATGATTTTTTCTCCTTTTGGGAGTTCGC  
AAATAGTTTTTTGATGACGGCAAATACTCCTCATTGCTAATTTTTGGTGACAGAGAATAT  
TAACTCTTTCTTTCTTTAGAAAAAGGAGGAGGGGAAGCCCTCTCTTCTACTTTGAATTAN  
AGTACCT

Sequence 978

CCGGGCAGGTGCGGCAGTGGGGTGTGCAAGCTGGCAGCGTTCTGCACGGGAGGCCCGTG  
GAGGGGTCACTGCTGCTGACTCTGCCTCTGTCCAGCGAGCTGCGCGGCCTGCGGCGTG  
GGGGGCATTCTCCCGCAAATAAGAAAAGTGCCAAAAGCACTGATTCCCAAGTGTGGCA  
GCTTCTACCAATGAGTCACAAGGAGACACCGTCTAACACCCCACTGCTTGTCCAAGACCC  
ACCACACTCACACGAGAAAGTTGGCCACAACCGAGCACACACAAAAGGAAAGAGAGGCGCT  
TGACCTTTGCAAGTCAGCATCAAGCAAAACAAGCACCAGATCACCACAGGGCACCCCTAC  
AACAGCAGCAATTAGGAAAAACATAGGAGTAAAAATTGTTGAAAGACACTATGACAATGC  
GACGTCCCGCGTACCTT

Sequence 979

TCCACCGCGGTGGCGGCCGCCGGGCTNGTACCTCNNGNACTNAATTGCAGNGGTAAAAA  
AATTGTTTTATACCTGCTGGTAAGCNATTCGAAAAATTGTCTATTTAAAAATGCANGTGC  
ATTTTAAAGAGTTACTATTTGAGGATCTAAAATATACAGAGAAGGCTGCATATTCTACTN  
TGNATCTTATNACCCATCACAAAAGGAANAGCNCTNCCTACGAAATNGATTTTGGTCAC  
CTTTCNTGGCTTTTTCNTGGAAAGGAAAAGATACTTTTTGGNAGNTCCTTTTTTAGTCC  
CANGNGGTCNCTTGGGGGCTTTTTTTTTTANGTTTCAGGTTTTGNAGNAAAAANTANCTT  
TTTCCATTTTTAAAAAAAACCCCT

Sequence 980

CGCTTACCNGGTATACCTTGTTCCGCCCTTTCTCCCTTCGGGGAAGCGTGGCCGCTTTCT  
CATAGCTTCACGCTTGTAAGGTATTCTCAGTTCGGTGGTAGGTNCGTTTCGCTTCCAAG  
CTTGGGGCTTGTTGTGCAACGAAACCCCCCGTTCAAGCCCCGACCCGGCTGGCGCCCTT  
ATCCCGGTTAAACNTAATTTCGGTCCTTGGAGTNCCAAACCCCGGTTAGAGGAACAACC  
GAACCTNATTCTGCCCACTTGGGCAAGACAAGCCACCTTGGGTAAACCAAGGGATTAN  
GCCAAGAAGCCGAAGGGTANTGGTAAGGGCGGGGTGCTTACAAGGAGNTTCTTTGAAAN  
GTGGGTGGGGNCTAAACCTACCGGGGTTTACCACCTTNAGNAAAGAAACAAGGTTATTN  
TGGGNTNATAAATNGNNGCCTCCTGGGCTTGGAANACCCAAGGTTTACCCTTTTTGGGG  
NAAAAAAGAANNNTNGGGTNNGGCNTNCTTNGGATNCCCGGCCAAAAAAN

Sequence 981

NCTCCNCCGCGGTGGCGGCCGAGGTACCTTGCTCCACCAATCCCAGCTGTCACATCAGCC  
CTATATGCCAGTCTCTGGGATTTTGCTTTTGTTTCTGTGTAAAAACACTGCTTTTTG  
TTTGGGCTCTGCTTTCCTGTGTTACTGTTTAGACAGTGTCCCAGACAGAAAAATGGAGA  
ATGGCAAGATTACCTTATGTGTTTCCCCTTCTTTGAAGGATCACAGCCTTTTATGTCTT  
CTGTCTAATGCATGAATAGGGTTGCTTCATGTAGTTTATCCAATTTACAATTGTTTATGG  
CAAAAGGGTAACTTTGATACCTTTTACTCTGTGATGGCTGTAAGTGAAGTCCTATTAAT  
GCCTTTTTAAATTAATAAGCACTGCCAATAAAACCTTAATTTCCATACATCAAAAGTC  
AACCAAGGAACTAATAAGTAGTAAATAAAAAATGTGGGGCAAGGGTGTGAGCAGACTC  
GGTAATTTCCCATTTATTTAATTTCTTAGAATAAAAA

Sequence 982

AGGTACGCCTGGCTGATTTTTGTGTTTTAAGTAGACACAGGGTTTACCATGTTGGCCAG  
GCTAGTCTCAAACCTCCTGACCTCAGATGATCTACCTACCTCCACCTCCCAAAGTGCTGGG  
ATTACAGGCATGAGCCACCACTCCCAGCCTATCCTGTTTCTTATAAAGTTTCTATCTTAG  
AAAAGTGGCATAGAGTGAAGACTTGATAACTTTGTATCTAGGGAAAAATGACATTTCCA  
TGTTGTCCAGTATAAAACACATATTATTGTTATATTCTGATGGGCCAAAAAGACATA  
TATGTTTAAAGTTCAGATTCATAGGCACAAGGTATTTATTATGTTTCAAACCTCCCAAAGGA  
TTTCATGCAATTTGAGAAATACTACCATGAATAAAGGACAAGAGGAATTCTGGAGAAAGG

Table 2

GTGGTGCAAATGCATACCCCTTATCTCCCTCCAATATGAATTTTGATCTGTCCACCAGCAC  
AGCTATCAATGCTAGCAGGCAGGTGGGGAATGGCAGATATGTGGGAACAATTGGCTTTTT  
GGTTTTGATAA

Sequence 983

CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGAACCTTAATTCAGATTAAGAAAATTGTT  
TCATACTGAGGTAAAGCGATTGAAAAATTGTCTATTTAAAAATGCAGTGCATTTTAAAGAG  
TTACTATTTGAGGATCTAAAATATACAGAGAAGGCTGCATATTTTACTTTGATCTTATTA  
CCATCCAAAAGAAAAGCTTACATAGAAATGATTTGTCACTTTCTGCTTTCTGAAGAAGATA  
TATGAGTCTTTAGCCAGGTCTGGCTATTTAGTCAGTTGAGAAATACTTTCATTAAAAA  
CCTATTGGTAGAAAATTTGCCAGTTTATTGGGCAGTTGCTCAAGTAGTTGCTTTTCTGAGA  
GGCAGTGGTGAGACCAGGATGTTCCAGCCCCAAGGAGGGCCCTGTAGCCCATCTCAGCCT  
GGCCATGTCGTCTATGAGAGGTTCTCTATCCATTGGTCAAGGAAGGGATCAGGCCCTG  
CAGTCACACTGCCTTTGCCTCTTGCCGACTTTATCTTGAGCGAGTCACTTGGCAGAGCC  
TCTGGTTTCTCTTAAGG

Sequence 984

ACGCGGGCTCCCCACCCCAACATTTTATAAAGAGCAAGTGACTTTTACAGCCTCTGGGTA  
TTGCCCAATAGCGATCTGGAAACAGGCTGCTCTTCGTTTAAATGACTGAACACACGGTTG  
GGGATCTGTTCTGAAAGGTGGAGGGTGCCCGCTTGGAATAGGGACATTATAAATACTGG  
ACAATTGAAGACAATATTTCTGAAGTGAAAAATGTTGCATTGNTATAAAAAATAACCCAA  
ACAGGCCCATGGAAGAAAATCTCTTCTCCCAAGTCCTTTACTGAAAAAATGATCCACAG  
ACTGAGAAAGCCACTTTGACTTAGGTGAGCTTGGAACCCACTAAATTCTCCAGGTCTCT  
AACAGGANAAAAAACTGGTTATAATTGTTACCAGAAAGGAAAAATTTTTTCTTTACC  
AGAAATGGGCAGTGTCTGTCAGAGAAACCACTGATTCCTGATATTATCACAAGCCAGA  
TACTTGAAGAGCTCTATTTAAATATGACTGAGGCCCTTTGATGACCAGCCAGNCTGTGG  
CAGATACCCGCACTGAGGAACTTGTTACTGGGTGNGCANGTGCNATTGCAGTCCCGAGC  
TNCCCCACAGGTGCTTGGGCTGNGCTGNCNCCAGCTTGGATTTTNTTTGGTTGNAATTG  
CCCTTTAAATNCTTTAAAAATAAAATCTNCCTTGGCTTTTTTCACCTTTTGTAACAAAAA  
AAAAA

Sequence 985

CGCTCAAGTCAGAGGTGGGCGAAACCCCGACAGGGACTATAAAGGATACCAGGCCGTTTC  
CCCCTGGGAAGCNTCCCCTTCGTGCCGCTCTCCTGTTCCCGACCCTGCCCGCTTACCCG  
GGGATACCCTGTCCCGCCTTTTCTCCCTTTTCGGGNAAGGCGTGGCCGCTTTTCTTCA  
TTAGGCTTACCCGCTTGTNAGGGTATTCTCAAGTTCCGGGTTGGTANGGGTTCGTTTCG  
GCTTCCCAAAGCCTTGGGGCCTTGNTGGTGCCACCGAAACCCCCCCCCNG

Sequence 986

CCGGGCAGGTACACCGATTTTATTGCTAGAATACTCAAGTCAGGACCTGACCACAGGCTG  
AGCACAGATGTTAGTGGCAGGAATGGCTATCTTGTTAACATAGTAATAACACTGAGAAGA  
GGAAGAAAAAACCATGAGGATTTTAAACATCTTTTCATCTTCCTGCATAAAAAATTA  
TTAAAAAGAAGAACAATGGAATTTCAACGCCTCACTGAGCTCTGATAGAGCGAATGAAAC  
AGTATCGTGAATGGCTGGACAGGGAATACAGTTTCTTGCAATTAACAGGATCGCCTAGTT  
CAGAGGTCATCCGCACCCACATTCCAGCCCCCTTCTGGTATCCCTCTGGGGAATCAAGAC  
CAGGGAAGGCCAGAAAAGAAGAAGCATAGCTCCTATGATCCCTGGAATCCCTCCACTGA  
TAAAGGCAACTTCCAATGACTCCTCTTCTTCCACGCATCCCACTCTTCCCTTTCTCTCC  
ACCCAAACCCACAAAGGGAAAGA

Sequence 987

TATCAAGTTACCTATGAACCGATGTATTTGTTCACTTAATACCATTCACTAAATTCAGT  
TATTGACCTAGTCAATAACTGCCCAACTTCACATTTACATACAGTGAAGAACTCTTGN  
TTCAGCATTCTTTTTTGGGT

Sequence 988



Table 2

AGGTACATGGCAACTGAGGCAAGAGCTCTTAAGTTACTTATCGAAGAATATCCAATAAG  
TAGGTGGTAGAGCTAGGATTTACACCCAGCAGTCAGCTTTATTTTCAACCATGCAATGCC  
TCCTTAACAAAGGAGATAGGTTAGGAAAGGCAGATCTGGGCAAGTGTGTATTATACAAC  
AATAAAAAGGCTGTGGGGTCAAAAGCTATGGCTGTAAAAGGTTAGGGTAACAGCCAGAA  
GAATCACCCCTTAGGAAGGTTAAAAATTTAGGACAACATCTATGATCCTTCCCAAACCTTAA  
ATCTTCATGCTTTTAAAAAGAATTTCTGCCAGGCGTGGTGGCTCACGCCTGTAATCCC  
AGCACTTTGGGAGGGGGAGGCGGGCGGATCACCTGAGGTCAGGAATTCAGACCAACCTG  
GCCAACATGGTGAAAACCTATCTCTACTAAACTACAAAAAATAATAGCCAGATGTGG  
TGGCACTTGCCTGTATCCCAGCTACTCAGCANGCTTGAGGCACATTTGAACCCCGGAGGG  
ANANGGTGCTGTGGGCTTAACAGCACCCACTTGACTTCANGCTGGGTAACCAAAGCGAGG  
ATTCTTTTTTNAAAAAAAAAAAAAAA

Sequence 989

CCNCCGTGGGCGGCCGCGCGCTGNTNTCCCACTCATACNCTGTAGCCCCAGGACGGG  
NCAGTTCAGTTGCCATTCCATCCTTGNACNGACNCTTGTCAGGNAAGTGAAGGGAA  
GGCAAGTCTCTCTCCCCCGCTNTAACCTCAGGGCCCGCTTCTTAAGCAAACCTATG  
NTGGGGATNCTCCCCCGCGCTNGCTAAGGGAAATTCGNATTATTCNAGAGGCCTTN  
ANTTCCGGAATACCCCGTTCCGCACTCTTCNGAGGGCGGGGGGGGGCCNCCGNGATA  
AACACCCCAAAGCCTTTTTNTNGNTCTTCCCCCTTTTNTTAANGNTGAAGGGGGNTTTT  
AAAAATNTNGCCGGCCCGNCCCTTTGNGACNGNTTAAATACCAATTGGGGTACCAATT  
AAGGNCCTTGGTATTTTNCCTTTGGTTCGTTGGGAAAAAANTCNCGGGANGTTAANTT  
CNCGGGCGTTNCCANCCAAAAATTTNCNCCAACCAACCAAAACCAATTTANCCCGGA  
AGNNCCCCGGGNGGNAAGGCCAATTAAAAAAGNTTGGNTTAAANAANGCCCCCTTGGG  
GNGGGGTTGGGCCCCCTNAAATTTGGGAAGNTTGGGAAAGCCCTTAAACCTTTCCAAC  
CAATTTTAAAAATTTGNCCGTTNTTGGGCCGACCTTNCAACCTTGGGCCCCCGNCTTT  
TTTTNCCAANTTTCCGGGGNGAAAAAACCCNTTGGTTNCCGGGGGCCCAANNCCCTTNGC  
CAATTTTAAAAATTGGG

Sequence 990

CCGGGCAGGTACCAAGATTTATCTAGAAGATCTGCAATTTGACAGATCAGATTTCCAATC  
TAATTATCTACTTTTAGGTGACAGTGCTGCCACCAATTTCTCAGCATGCCAAATGGTAA  
CTATGACAACTATTTTATTTTACAATCCTGTGTTTCGGTCTGATTAATTTACTTGCC  
TCTTTGAGCTTTTGGTTTCTTCTCTGTAAATGAAAATTATACTTACCTGAAGGATTGAA  
AGACACAGAATATATAAGTATTTGTCTCGGATATGCTCATTGGAAATATTAGTTCCCTG  
TTTTTAACAATGAGCAAGGTATCTAAATAATATCCACAGCCGTGGGAGTGAGGCCAATGC  
AGAGAGTCACCATCAGGGCAATTCCTAGTGGAGTTGCCAGGCAGGGCCATCCCAAGACC  
CCAGACCAGTAGGGCCACCAGGGTGCAACTCCAGGCTGGGAGACCCAAAGGCATGCAACT  
CCAACACACAAGAAATGCAGCCAGCAATGTGATGAAGTAGGGTTGCCTGGAGCCTTGGGG  
GTCCAACCTCCACCCAGTGTGTCCAGAAAATGGAGNAAATGGGGAGTTAAAGACTCCC  
CCCCAATTTAAGGGGTTNAATGGTTGGCCCTACTGGAGTTTTTTT

Sequence 991

AGGTACTTTTTTTTTTTTGTTTTTGTTTTGTTTTGTCCTTTAGTAAAGTTTTACAGTT  
TTTTTCTGTAGGTCTTACACTTTTCTTGTTAGGTGATTCTCGGATTTTTTTGTTTTT  
GTTGTTGTGAATTACATTTTTTCTTCCATTTTACATTTTATTTTCTCATGGGTTATTGC  
TGGTATGTAGGAAGGCTATTGATTTTTATGTTGATCTTACCATTTACTTAGTTTTAGTT  
GCTTCTCTTGAAGTTTCTAGAAGGATGGCTGTATTTTCTGCAATGATAGCATTTTGTCAT  
TTTCTTTTCTTTTTCTGTATGTGTTTACACCCTTACAGGTTTTTTTTGTTTTTTTTG  
TTTTCGTTTTTTTTTGGAGGACATTTGTTTTGTTTGTCTGGNCTTACTACATTGGTTAG  
GTTTCCAGAAAGGTTCACTACTAAGTTTTGATTTGGGTA

Sequence 992

AGGTACTTTTANGAGACCCAGGCGGGCAGATTGCCTGAGGTCAGGAGTTTGAGACCAGCCT

Table 2

GGCTAACATGGTGAAACCCCTGTCTCTACTAAAAATACAAAAATTAGCCGGGCATGGTGGC  
TCACGCCTGTAGTCCCAACTGCTTGGGAGGTTGAGGCAAGAGAATCGCTTGAACCCAGGA  
GGTGGAGGTTGCAGNGAGCCNGAGATCGCGCCACTTGCACTCCAGTAATGGGCGACAGGA  
NCCAAGGCTCCATCTCAAAAATAANNNAAGAAAGTAAACATGAGNAAAAGNAAAAGCTT  
ATATTNGAATTCTCTAANAAAAAAGNAAAAAAAAGGAAAGCCTGATGCCACACAAANAT  
NTAANATTTTGGGCAAAGGTCGATCAATTAAAAGGGATATTTATTTGGCATCCACAAAAA  
TAAATTTCTTTTACTTCCCCCCCCCAAAAAAATTCAAATTANAAAAAGNTTTCANAT  
AAGCCAACCTTTTTTCTTTAAATGTGGTTTTTAAAAA

Sequence 993

CGCNGTGGCGGCCGAGGTACTTTANGAGACCCAGGCGGGCAGATTGCCTGAGGTCAGGAG  
TTTGAGACCAGCCTGGCTAACATGGTGAAACCCCTGTCTCTACTAAAAATACAAAAATTAG  
CCGGGCATGGNGGCTCACGCCTGTAGTCCCAACTGCTTGGGAGGTTGAGGCAAGAGAATC  
GCTTGAACCCANGAGGTGGAGGTTGCAGTGAGCCGAGAATCCGCGCCACCTGCACTCCAG  
TNTTGGGGCCGAACAGNAGCAAGGGCTCCATTCTCTAAAATANAGTAACAGGAAAGTAA  
CCAAAGTAAAAAGTAAAAGCTTTATAATNTNGAAACTTCTCTNNAAGAAAAGGGAAAGAA  
ATAGTAAAAGGCCNTGGATTGCCACACCAAAATCTTAAATTTGGGCAAGCTCGNATCANA  
TTAAAAGGGATAATTTTTATTTTGCATTNACAAAAATAAATTTTCTTTTTACTTCCC  
CNCCCCAAAAAAAATCAANATTAAANAAAAANGTTTTCCAAAAATTNAGNCNANACTTT  
TTTATCCCTTAAATNGTGGGTGTTTAAAAAANTGGTANAATTCCAACCCCAAAAATTANC  
NATNTTGTTCCTCCCCCAACGGGNTCTTTNTCCNAAGNTTTAATTAATNTCCNTAT  
TTTGGNGGNTAAAAAGGNTGGANGGTTNTAANCCTNTGNAAAGTNGTAGGGCNNAATTA  
AAGGTAANAAGGTTTGNAGGCCTTTCTAAGNANCCCTTGCNCCTTNGGGAANANGGANGC  
CCNTGGTTTTCTTTTNTTTNANGAAAGANGGTCTTNAAGGGGAAAAATG

Sequence 994

CCGGGCAGGTACGCGGGAAGGAGATCTGCTTGGCCACTGGTGGCTCGGGGTCTGGAGTTC  
CTGTGTAAGGATTCCAGGAGGATCCCAGGGCTCCCTCCCACCCTGTTCCAGTTGATTACA  
GCAAGGGAAAGAGGACACCGCCCGCATCAGCCCATCCAGCATTCTGTTCAACTAAGCATAG  
AGTGCCGGGGTCAACAAGGACAAATGAGCCCCCACCCTGCTCTCATGGAGTTCCAGTC  
TATCAGGGACCAGCCATTAAGTAGTTCTGTGGAGTAAGTCACTTAACAGGTGTTCTCGG  
CTCAGGGCCAGCCCTCAACCCAGCCCTAAGCCCAAGTACCT

Sequence 995

CCGCGGTGGCGGCCGCCCGGCAGGTACACGGAGGGTGCCATCAGAACAAGAGGGGAGAG  
GCCTGCCAAGGAAGTTTCCCTGGAAATACTCTTGGACTGAGTGTTAAAGGATATGCTATT  
AATGCTATTATTGGTTGTTCTGGAGAGACTAACTGAATTTATTATCCTTTGCCTAAAT  
CTACATCTAATTTCACTTCCACTTCCTTATATGTCAAATCAATTCTCTACTTTTTTTTTT  
TTTTTAATGAGGCAGGGCCTCGCTCTTTCACCCAGGCTGGAATGCAGTGGCATGATTATA  
GCTCACTGTAGCCTCGAACTCTTAGTTGCAAGCAATCCTGCCTCAGCCTCCCAAGTA  
GCTGGGACTACAGGCATGCCCCCACCACACCCGGCTAATTTTTGTATTTTAGTAGAGAC  
GGGGTTTCACCATGTTGGCCAGG

Sequence 996

CCGCGGTGGCGGCCGCCCGGCAGGTACGCGGCACAGGGGTCTGGAATTACACAGAAGA  
CGGGTGACAGCCAAGGTGGATCATGAACGGTGAGAAGTCCAGCAGGTGACAAGGGGAAGG  
GTCTAAAGGGTGGGGGGCACAGCGCAAGCAAAAGTCTTGGCAACAAAAGAGCTAATGCATC  
CCAGAAATGGGGCAGGTGGAGTACCT

Sequence 997

CCGGGCAGGTACCTTTAATCCTCCACTGACTTTGGAAAAACAACAAATGCCAGCTTCCA  
CCAGATCATTTCTTCTTAATTAAGTTAGCCAGATTCTTTGGAGCACTCAATTTTCTG  
GTCAGGTCAACAAAAAGTAATGAACACCACACACCTCCCTCCCCTGTCTTCTTAGCC  
CCATTCTGGAGTTATGCAACCCTTGGGGGCGGCATACACTTCAGCTATTTGCTCTGTGT

Table 2

TCATAATTAGATTGTCTAGACAGGAGATGTTGCTGGAGCAATAGGAAAATATTTTACAAG  
ATGTTCCGCAGAACCACACTTATAACAGTGATTAGGACACACTACCAGACGCGAAGCCAG  
CAGAATTGGCCCGGGCCACGAGCCGGTTTCACCCAGAGCAGAAGCCCTTTCAAGCTCTCA  
TTTCAGGAAGAGGTGCCAAATTAGAGCTCTGAGGGCATGGAGCAGCAACTTCTTGCCCTT  
TGGATCCGAGAAAGCAAGGGTGAGATAATAGAATGATGTCTGCGATGCCCTTCTTTCT

Sequence 998

CGAGGTACAAGAAGGATTTGTGAGGAAGGGATGTTGGGGAATAAATGAATGCAGGTGAGA  
TTGCTTAGGTAATTGTAGGCTTTAATCTGTATGTGAGGTGATAAGGGCTTAGATGGTTTT  
TCCTAAGAAGAAATTATGCCAATTACAAGATACAGGTTAGGAAGAATGGACCAGAGGAA  
TTAGGCAGTCAGTGAAGATGTGGACTTGATTGTGGATGTGATTGAAAAAATGGTGT  
GCTTCTGTAGCACCTGAAGGGCTTAGTTGGGAAATGTTTCATGTGGGATTATCAGCATGGT  
TGGCTAAAGCTGCCTACTGAAGTATTAAACAGAGGAAGAAGAACAGGAAGCAGATGAGGGGAT  
GTCTTGGGTATATTAGATAGAGAATGGAAGGAAAAAGAGGATGTAGGTTAAGAGAGAG  
GGTGAANGAAATNNAAAGAGTGCNNTNATGGGAGCAGAAAANGGATGAGTGTTCGCCG  
AACCTATAAATATTACNTGAAACCAAAAAGTTG

Sequence 999

GTAAATTGCCGCGCTTGGCCGTAATCATGGGTCATAAGCTTGTTTCTTGTTGTGAAAA  
TTTGTATATCCCGCTCACCAATTTCCACCACCAACNATACCGAAGCCCGGGGAGCATAA  
NAGGTGTAAGAGCCTGGGGGGGTGGCCTTAAATGGAAGTGGAAGCCTAAACTTCACCAA  
TTTAAATTTGCCGGTTTGGCCGCTCAACTGCCCGCCTTTTCCAGTCCGGGGGAAAA  
ACCTTGTTCCGTGGCCCAAGCCTGCAATTTAAATTTGGAATTCGGGCCCAACCGGC  
CGCCGGGGGGAGGAAGGGCCCGGNTTTTGGCCGTTANTTTGGGGCCGGCCTTCTTTTC  
CGGCCTTTCCCTCNGGGTTCAACNTGGAACCTCGGCTTTGCCGNTCCGGGTTCCGTTT  
TCCGGGNTTGGCCGGGNGAGGCCGGGGTAANTTCAAGCCTTCAACTTCCAAAAGGGGCC  
CNGGTTAAGTTACNGGGGNTANTTGCCACCANTAAATNNANGGGGGTAATTAACCGNCC  
ACGGGAAAAAANAACAATTTGTTGGAAGCCAAAAA

Sequence 1000

CCGGGCAGGTACAGGTTACTTGTCAATTGAATCTGTGGCTTTTCTCTGGTAAACAGTAG  
CTTCTCGGCAGCTCTGCTTACTTGACTTCTGGTTATATCCCATGAGCCAGGCACAGATC  
TGGTTTTACGGGACAATGCCAAACAAACATTGTCAGGGTCTGTTAGGGTCACAAGAAG  
ATTTACTCTATTTCTTGTCTGTCTGCCTGCTTGAACAATAGCAGCCATTAAAGTTGT  
TATGTGAAGTCTTGTATTATATACTAGAAATGGGCCTTGAAGAATGACTTGTATCATA  
TTGTCCACATCCTCATTGAGAATATTAAGAAGACAATGTTGAGAAGACTGACGCCAGAG  
AAATGTCATTTGCCCAAGGCAAAATCAAATATTTTGGTGGCAGAGACTGCTTAGGAAACA  
ACCGGTCCTTATCTCAAGTCTAACTCCCTTAACATTTGGGGGCATTTCATAATTTGATCT  
TGAGGGTAATAGATATTAGATGTATTAACCTCTTTTTCCAGCCTTACATAACAAAGTCTT  
CAGAAACAGAAACCGTATTTTGGTGGTTTGGTTGTAAGTAAATGCCTAGTATGGAGGTC  
ATGTAATGGATTTCTTTTTAAATTTTAAATTTAAATTAATTGGATTTTTTGGNGGGA  
TANCATTAGNAAGGTATTATTTATTGGGGNTCCTCGGGCCCGNTTCTAGAAACCTAGGG  
GGGATCCCCCGGGCCTGCANGGAATTCGAATATTCAAGCCTTATTCGNATTCGCCGGTC  
NANCNTCTANGGGGGGGGGCCCCCG

Sequence 1001

AGGTACTTTTTTTTTTTTTTTTTTTTTTGGAGATGGAGTCTCACTCTGTGCCCCAGGCT  
GGAGTGCAATGGCGCAATCTTGGCTCACTGCAACCTNTACCTCCCAGTTCAAGTGATTCT  
CCCACCTCAGCCTCTCAAGTAGCTGGGATTACAGGTGCCTACCACCATGCTTGGCTAATT  
TTTGTATTTTAGTAGAGACGGGGTTTCTCCATGTTGGTCAGGCTGGTCTCGAACTCCCG  
ACCTCAGGTATCCGCCTGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGTGCGAGCCAC  
CTTCCCAGCCCTCTCCCTGGCATCTTAATGCGCATAATAGTGAACACTTGCAAAGGGGC  
TTTACTGTTATCGNGCTACTATCTTGGAAGGAAGTGGAAGAAAGATGCTGCCTAGTTCCA

Table 2

CGATTGGTGTGTGGATCCTCCTAGAAAGTCACTGCAGACCTGTTAAAGTGTAAGAGATGC  
CTAAAATTGAAAAAAAAAAGTTGGGGGAAGGGGGCTGGAATATGGGATGAGTCCTCAT  
TCCCAGGAAAAGGCCTCATCCTTTCTTGTGGACTGANCCCANATGTTCCAGGGGGGCCC  
TTGCCTCCTTCCCTTTNCTGGGGGGGNT

## Sequence 1002

GGGGGACCTCCTCGTCCAAAGAAGGGAAGACCTTGTGGCACCATTGAGAGGCGTGTCT  
CTTCTGGCTGCCGCTCGAGCACCGAGAGCTCCAGCTCGTCTACTGGCTGTGAGGGTTGGG  
CCAGGTCCATGTGCCGGCAGGGAAAGTCTCCCCGCGTACCTGCCCG

## Sequence 1003

GTGGCGGGCCCGAGGTACTNTGCTTTTTTTTTTTTTTTTTTTGGTCTGCCAGGGACCAT  
CAGGCATGGACTCTGATGGAAGCCTGGTGGTGATAAGGTCATCCACAGATCTCATTATGC  
TGTGAGCTACAGCCGACGTGATTATAAAATTCTGAGGTGGAATCCTGAGAGACAGGAGGG  
CTGANCCAAAACCTTCATGGGGTTGTGCTGCAAGGANTGCCTGCCGTCCANCAGGGCCT  
TGGNGAGCATAAGCAGGACACCTGAGCTGTGATAAATGTCCTGGNGATGACCAGAATCTG  
CCTNTNCTTGGGTAAAGGGAGAGGCTACCCCGAGGAGCTGGAAACAAAGACATGGAAGCTA  
GGTAACCTGACGCTAGGCNCTCTCACATCCTGGAATGAGGGAGTCTTCACTGAGCCTATT  
TCTTTAAGG

## Sequence 1004

GGGGCCATTGAGACTGCCATGGAAGACTTGAAAGGTCACGTAGCTGAGACTTCTGGAGAG  
ACCATTC AAGGCTTCTGGCTCTTGACAAAGATAGACCACTGGAACAATGAGAAGGAGAGA  
ATTCTACTGGTCACAGACAAGACTCTCTTGATCTGCAAATACGACTTCATCATGCTGAGT  
TGTGTGCAGCTGCAGCGGATTCTCTGAGCGCTGTCTATCGCATCTGCCTGGGCAAGTTC  
ACCTTCCCTGGGATGTCCCTGGACAAGAGACAAGGAGAAGGCCTTAGGATCTACTGGGGG  
AGTCCGGAGGAGCAGTCTCTTCTGTCCCGCTGGAACCCATGGTCCACTGAAGTTCCTTAT  
GCTACTTTCTGAGCATCCTATGAAATACACCAGTGAGAAATTCCTTGAAATTTGCAAAG  
TTTGTCTGGGGTTCAATGTTCTTAAAGCTTTGGTTTCCAAGCTNTNCCANNAATGCC  
ACCAAGAAATTTCAAACCTTGGGATNTTGGGAAAGAAGGNAAAAANAAACCTTGATTGGT  
GGNTNAACCTTGAACCCCA

## Sequence 1005

GGGTGCTGGTCGAGAAGCTCACGCCCGAAGCCCTGCTGGGCGCGATCGCCGAGCACCGCG  
CCACCGTGTGCTTCACGGCGCCGACCTTCTACCGCCAGATGGCGGCGCAGGCTGGCCGCT  
TCGACTTGTCGAGCCTGCGCGCCAGC

## Sequence 1006

AGGTACGCGGGCCTGCCTTGGGGAAGAAGGAAGTGTGTCTCTGTGAACCTCCACCTGGG  
CCGAAGGGAGGCCACTCTCTCTGCTGCCTCTCCCAACCTTGGCCTTCTGTGCTCCTGGT  
GAACCTCTACCCCCCTGCCTACAGGCCTCGAATCTCAAGACCATGATGACCTCTGGTCAC  
CCCTGAATCCAGAGCTTTCTTTTACAAAGGGGAAACTGAGACCTGGAGCAGGGCTGATG  
TTCAGCCAGCGCACACGGAATGGCCGAATTGGTGGTAAAATACTGAAATAGTTCCAGTG  
TGGATGGAAAGGGGCTGCTGCCCTAAGCATCTCTACTGCCCGCCTCATCCCTTCTCCAG  
GACCCTGGGTGAGCACCAGGAGCATCAAAGTGCCAGGATTGGCCGAGCCCATGCTAAT  
GGCTCTGCCAGCCCTTCTNCCCACCAGAGAGGGCAGGGGGA

## Sequence 1007

CCGGGCAGGTACGCGGGGAGACTTTCCTGCGGCACATGGACCTGGCCCAACCCTCACA  
GCCAGTAGACGAGCTGGAGCTCTCGGTGCTCGAGCGGCAGCCAGAAGAGAACACGCCTCT  
CAATGGTGCCGACAAGGTCTTCCCTTCTTTGGACGAGGAGGTCCCC

## Sequence 1008

CCGGGCAGGTACTGTGCTAACCAGGCAACCATTGGTTAGGGAGCTTCCAAAACCTCCGTGT  
CCACTCCAGGCCCGCTCCAGCCATCTGGCCAAGCACACTCAGCTTCAGGACACAATGAG  
CATAGCCAGTCCCTCTTTGATGTCCTTGGTACCT

Table 2

Sequence 1009

[illegible]

### Sequence 1010

AGGTACAAGTGCACATCACCACACCCAGCTGAGCAGCATTTTTAAAAATTTCTTTTCCTC  
CAAAGCTTTCTTATATCCTGATTTTCCCTCACTATCCTCATGTAATATTTGCATATATTC  
ATACACACACACACATGCAACTGCATTTTATACACATGTGTCTTGGGGTCCCGGAGAGCT  
CAGCGTGTCTGGTGGGGTTGGTGGGGCTGGTGTCTCCAGAGTGGTGATGTGAAGAGCAGCA  
CCTCGCTTAGAGGTAGAGCAGGTGTGTGCCATGAGCTCAGGTGATGGCAGTGGAGCTTAC  
AGGAGATGGCTTGTGGCTTTTCCCTCCGTTGGTCTGTCACTCTCAGCTGCCACTGTCTGC  
CACTGTAGGGATTCCACTGTGGGTTCACCTGTTCTTATGTCAAGGCAATGTTGTTTGTGT  
ATACTCATAATAAGCACTGTTAAAGAGGGAACATTATGCTGAAATACTAGTGAGGGGT  
CGGGTGTGGTAACGCTTGCCCTGAAATCCCAGCACTTTTGGAGGCCAAGGCGGACGGATCA  
ACTTAAGGCCAAGCATGGTGAAAAGCCATCCCTACTAAAAAT

### Sequence 1011

CCGGGCAGGTA CTCA TCATTAAGAAATTAAGATAATCCGTAAATAAAACAATGACAATA  
TAATAGTTTAGAGAGTTAAGATTTAGGAAGTAGTAGATAAAATAATTATCTGTGTTATGC  
AAATATAATCCTTAGAATGCAATATTTGATTAATAGGAGTTGTCCTATATGTCATTCATA  
AACTTGTAGCAGAGAGAAACCTCTGCATAGCTCAGGTGTTCAAGTATGCAAGAAACACA  
GTTTTCTGTATTTTGCTCTTGCTAAACTTAATTTGTATTCTGGGCCCTGGTTTCATCAAG  
TGGCAGAAACTCAATCTCAGTCAGCCCTAACTGACTATCCTCCAGGACTCTGTCTACAAA  
ATGCCAGGTGGGGGGCCATCTGGCCCTCAGTGTGTCATCAGCCACCCCTGCTGGCACCCACT  
GAGACTTCTGCTGCTTGGTCACTGGTCCTTGTAGGTTGCCACTGCAGCCTCCTTGTCTC  
ATTCCAAGGACACATTAGGCCCTCTGGCTCTATGAGTATTTTCACTGGAGAAATTTTGC  
TTCTGGCTGGTACCTCG

Sequence 1012

CCGGGCAGGTACGCGGGCAGTTCGAGAGACCTGCTAATTCATAACTTACAGTCTCTTGC  
CACTAATGTCACTGCCAGCAAAGTCACAGTCCCCTCAGCATCCTCCATCTTGAAAGGGTG  
ACGTGCCGCCCTGCCAGCGGAAAGCTTACCTGGCACTGTTGGTTTGTGTATCATCCACAT  
TCTCCCCAGTTTTCTAAATTAACAATAGGAAGCATAGCTGGTTTAGGAATCTTTTAGT  
TAGATTAGGTAAATCACAAACTGGTAGAAATCGTTCAACCTAAGTTAAAAACAAAAACA  
GCCATATCTTCAGGAGACATTTTCTATAAAATTTTATCATCTTTTATTATTATTTTTCT  
CTGGCAATAATGAAAGGAAATGTCAGAAATGGAAAGTTTGTCCCTTTTGTAACTGGCGAG  
AACTGGGTTTGTGTTTTGCCTAACTTTTTNTCCTGGAAGATTAAATCAGTATTTGCTG  
TCAAAGAAGANGAAATGCTCTANCATCTGCCAANACACTTTGTCTGTCTTCGATNAAACA  
ATAAGTTTAAAGNGGACCGGGNTGCCCNTTANTGNTGAAAANGGTGGNGGGGGGAATANC  
TTTTTTTANGGATTCTCGGAATACCAAAAAANNNACAGGATTTACTTAGGGGGCCTNNNACT  
GGGGTTTNTTTTT

Sequence 1013

GGTAGAGACAGGGGTCTCACTATGTTGCGCAGGCTGACCTCAAGCTCCTAGCCTCAAGCA  
ATCCGATCCCCAACCTCAGCCTCCCAACATGCTGGGATTCTGGCGTGAGACACCATGC  
CGAGGCTCAATGTCTCCTNTGAAAGGAAAGAAGTGGACAAAGCCATTCTGCANATTCCCA  
ACACTGTCAACCGAGGCTGCCCGCACAGCTCTATTATCTGTCTGAAGCATTGTTAANANA  
CTGCGCTATCGTTCCATTGACAGTTTGAAGTTCAGTGACAGAATTATNTGGAGAGGGCAN  
ACCTGTNGGGATGAAGGCCACACAGCTTCAGTCACAAAAGAAGGGCTATGTGCACCCATC  
ACCAAGACACCCAGTGCTGTGAGTCTTTGGTACCTGCCCG

Table 2

## Sequence 1014

AGGTAATAATTTGCTATTAGTTTATATCATTATTTGGGAATATGACTTTTTTTAAATTG  
CAACAACAAACAATGAAAATTATACTAAGAGTCACATTCAGTAGTATCTTCTTTTACA  
AAATCTGAATATAGACAATCTTCAAGGGCTTCGGAAATACAAAGAAAGATTTTCATTGCAA  
TGGATTTTCTCAACCCATTTGAAGTTCCTCCTTGCTCTTCTGTCTATTATTTGTCTGGTC  
TATCCTTAAGATCACTGAATAAACAAACCTATCCACCGATCTTGGCACTTTTTTTTTTTT  
TGAGATGGAGTCTCCCTCAGTTGCCAGGCTGGAGTGCACTGACCCAATCTCCGCTCACT  
GCTAGCTCTGCCTCCCAGGTTACACCATTTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGA  
CTACAGGCGCACGCCGCCACAACCGGCTAATTTTTTTTTTTTTTTTGGNATTTTTAGTA  
GAAACAGGTTTCACCCGTGTTAGCCCAGGATGGCTCGATCTCCTGACCTTGGTATCCGCC  
CACCTNCGGCCTTTAAAGGGCTNCGGATTACANGCGGGGACACACTGNANCCGGGCCCT  
GATCTTTGGCNCCTTTTTNAAAACCTTCNCAATTTATATTCAAATTTTC

## Sequence 1015

AGGTACAGATATGAAGTCAGGAAATACATGAGGCGGTGGGTTTGAAAGTCTTTTCTTAAT  
TTGTAGTCAGAGCTTCATACTGGGTGAGGCAAGAGAACATGTGATCAAGAGTCAATGTG  
ATGACAAAGAGAAATAGAAATCACTATTAAATTACGGTGTTTCGAGAATGGTGATGTGATT  
CCAGTAGAGCTTGAGGGGGAAGATGTTACTAGAGATTGAAAGACAAAGGAGAGGTGGGGA  
GTTGGGGACAGGTTGAAGAGTTAGTCTGTATGATGCTGTGGTTTATGAATGGAGAAAAAA  
TTGTGGCACACTAGAGAATATCAGCTTACAGGCTTTTTTTTTTATTCCAACCTCATTAATAT  
AGTGTGGAGAAAGATGAGCAAGAAATAATTGATTGTTTTTGAGTAAGAGCTAGTTAAAGA  
AATTTGGCTTGAGAGAGTGAGAGAAGACTAGATACAGAGAGTGGCACACGATATTGCTT  
AGTATTCAAATTAAGTT

## Sequence 1016

GGGGCCATTGAGACTGCCATGGAAGACTTGAAAGGTCACGTAGCTGAGACTTCTGGAGAG  
ACCATTCAGGCTTCTGGCTCTTGACAAAGATAGACCACTGGAACAATGAGAAGGAGAGA  
ATTCTACTGGTCACAGACAAGACTNTCTTGATCTGCAAAATACGACTTCATCATGCTGAGT  
TGTGTGCAGCTGCAGCGGATTCCTCTGAGCGCTGTCTATCGCATCTGCCTGGGCAAGTTC  
ACCTTCCCTGGGATGTCCCTGGACAAGAGACAAGGAGAAGGCCTTANGATCTACTGGGGG  
AGTCCGGAGGAGCAGNCTNTTCTGTCCCCTGGAACCCATGGTCCACTGAAGNTCCTTAT  
GCTACTTTCACCTGAGCATNCTATGAAATACACCACTGAGAAATTCCTTGAAATTTGCAAG  
TTGTCTGGG

## Sequence 1017

CCGGGCAGGTACCCTGCAGAATCTACCAAGGCACTCTGTAGCAAAGCAGGCCTTCCACCT  
GTCTCGGGGAACCCAGCTGGCCACCTTGCACTCAGCCTCTGCCAGTCACCTCAGGGCTGG  
CATTGAGGAGTCTGACTGCACGCCAAAGGTTGTTAAGTGGCTTTCTCTGAACCTCATTTG  
AACAGCTGAGTAACTGTTCTTGCTTTACAAGGAAAAGAACTCCTGAAGTTATTAGAAC  
TCACCAAACCAAGTTTCTTGTTTTGAAGAAAGCAGGTAATGTGGCTTTGCCAGCAAGAA  
GCAGGCCTTGGGCGTCCATCTCCTTCTCAGGTGTGTTTACTCAGGAGAAGGTGACATTTG  
GATAGGGGCAGGTGTGTTTGCTGAACCTGAGCTTCAGCCTAATCATTCCGGAAAACCTTCT  
GAGACTTTCTCTGCCCTGTAATTTCCCCACTGTTGATGGAAGTATATTGCAGTCTCATGC  
AGGACTGCGAAGGGAANGTCACACTCACTAGATCACTTATATACCAAAATTTCTGGGGAAC  
TTTTGCTGCATATTATCTTTAGAACTCTTCCATTAATGATAATCATTGAAAATATTAC  
CATGGGAATAAAA

## Sequence 1018

CCGGGCAGGTACTTTGGGAACAGGGTCTGCCTTACCATAGAAGTGTAAGGACTGTGATGA  
AAGTGAGACTTCTCTCCTCCCCTCTTTTTTAACCCCTTCTCCCCCTCCCCAAAAAAT  
GCTGTGAAAAGGACTCAAAGAAAGGGCATAGCTTGAGTTGACCATTATTCTTGTGTTTTGT  
TTTTTCTTCCCATGATCTAAATTAAGGGGGGGGAAAAAGCATAGGTTAATGGCCAATA  
CCATAAGCATGGACACGAACATACACATCCCCCATACACACACCACACACCCCACTA

Table 2

CTCACCCAGCAATTCAAATTGAGGTGCCAACCGCCCAACTGCTGGAACAGAGAGACCCCG  
GAGGCCACTGCGCCTCCCTTACCACTCAAATCTTCCATTCCCACTAAAATTGTGTCCCTA  
GGGTACCT

Sequence 1019

NGGGGGGGNAGNGGGGTGTANAAAAAAATNTTTTTTTTTNTNTNTTCTCGCCTTG  
AGCAAGGCCAACGAGCCGCTCGNANTNNNTNTNTANTCGNNGGGCGGGCNTAAGNG  
ACCATTGTGTGGCCGTTTGCCGCTGGACN

Sequence 1020

AGGTACAAAGGTTCAAGTGGTGAGAAGAGGGAGCAAGGCCCTTTGGAATAATGAACTCCAGT  
TGTTCTCATAGGTGCAGCAGAAATAGCGAGAGGTCAGGATTATGGAGATTGGTAAGGCG  
AGATCATCCAAGGGCCTTTTGCTTGTAAGCCATTTTACTTTAATCTTGAGTGCCATAGG  
GATTCATTGACGGATTGATACAGGGAAATGAAATGATTTTTTTTTTTTTTTGGTTGGGGG  
AGACAAGAGTCTTGCTCTGTTGCCAGGCTGGAGTGCAAGTGGCACAACGTCGGTTCACTG  
CAGTGTCTGCCTCCCAGGTTCAAGCAATTCTCATGCCTCAGCCTACCTTGAGCTGGGAT  
TACAGGTGCACACCACACCCAGCTATTTTTTATATTTTTGGTAGAGACGGGGTTTTG  
CCATTTGTCCAGCCTGGTCTCGAAGTCTGGCCTCAAGTGATCTGCCACCTCACCTNCC  
AAAATGCTGGGATCACAGGCATGAGCCCCCGTCCCAAGCCAATTCATTATTTAGAATG  
AATGCCCTGTCTGGGGGTGAATGGACTAGAGGAGGGCAATACTGGGAGGCTGAGGCGGG  
TTTACCTGTGGAAGTGACCAANTGAGANTTGAACCTGAGGGGTATGGCCAA

Sequence 1021

CCGGGCAGGTACCCAGCTGAGACTGGNTNNGTCTAATTCCTCCCNACACTAACCTGCCT  
CTGCCAGGCCAGCTGTGCTCACTGGACAGAAACCACCCCATGCTTTTACCCTCCTGCAT  
GATGGGGACATGGATTCCAGGGCCCAGCTGTCCTGGGACATCACCACTCTGACTGACTT  
TCCCTCATCAGCAGAGAGGCCTGCCCAAGGAGGAGTCTCTCCAGTCAGTGATCAAACGT  
GCCTAGGGTAGGGAGCGAAGTGCCCGCTGCCTCATTCATCACCTGCTGCCAGGGCCCGGT  
GCTCCTTAGGGTCAAATTTTCATTTTCTCAAGCATCCTTGTTTTCTTTCTTTGGGTGCT  
GGAGGGGGTTTGGGCCCTTTTGTCAAGTGTCCAGTGGTTTTGTGGGAGTGGGAAAAGGAAA  
ACCAAGAACTTGGTGAGTNGATNCGAATTTTGGACCCCTTTTGGGACCAAGACACCCCCCG  
GCGGTTACCCCTTNGGGCCCGGCTTTCTTANAAACTTAAGTNGGGGATTCCCCCCCCGGG  
GGNCTTGCCAAAGGGGAAATTTTNNATTTNTNCAAAGGCCTTTATTCGAANTACCCGG  
NTNCGNAACCCCTTCGAAAGGGGGGGG

Sequence 1022

CGAGGTACCAGACACAGGCATATACTTGTTCCTACNGAAACAGAACTATATTATTACA  
ACTCTTGCAAGTCTACAGAGGAAATTCANAAGTTCCTGAATCAGGGGACTGACTACCAA  
ATTTTCAACTCACAAATAGAATCCCCACGAAGTCCCTACCTGGAGTTATCCATTAACA  
ATTAAAGAACTGAAGAAAAGCTTTATGGNCTGGAATCTCAAGGCTGCTGTCCATGAGTCT  
AATCCAGCCAGNAACATATGCTTTGTGTGTCCAGGCATGATAATTTTGGTTAAGAAAN  
ATTTGGTTTGTGGAATGCCTTTAAATGGAGGCATTGCTCTTGCCCTAAATTTTACGGCA  
NTCTTCCACTGGAAAACAGCATTATCTNTAAAGTTTGGTNGAATTTTGGAGATTGCAAA  
CTCCCTGATATAANAATAACTTTTTCTTTTAAATTGGAGGGAAAGNAAAACTAAGAAGG  
TTAGGAGACCTTTTTACCAGGAAATTTCTTATTAATAAATTACNAAAAATNGNGCCAT  
GGCAAAAAAGGTAAAGTTGGGTGGACCCCTAAAAAANGTTCNAACCANCACCCCGGAA  
AAACNTNATNNANGGGGGGNNTGNCCNANAGNAAAACGGTTACCCCTTCGGGGCCCCGNT  
TCTNAANAAACCTAAGGGGGGNATCCCCCGGGGGNCCTNGCNAGGGGAAANTTTCCNA  
TTTTTNAAGCCTTTANTCGGATTACCCGGTCCGAACCTTNGGAGGGGGGGGGGGCCCG  
C

Sequence 1023

CCGCGGTGGCGGCCCGCCGGGCAGGTACTTTTTTTTTNTGGGNNGANGNTTTTTNGNAN  
NAANTTTTTTTTTNTTACNGGGATGCTGTTATGGANATTTACCACAGGCCCANCCAGG

Table 2

CCTNACGTTCTCATATTTAAATATCATTTGGAANCTGATGAAACTCTGGAAGTGCTCATC  
TCCCTGTTGGTTCTAANATTTAGTCTTCCTGGGAACTTTATTTATGTAAC TAAGTGCTG  
AAAATTGAGTCTCAAAGCAAGTATTTTATTATATTTCTTNGNGGTTGGGGGGGGCCCCGG  
GTCTGGTGGGTNCTTNGTGGGAGCTTNTCCAAGGTGTTNGAAANCCNTCTGGTTAGAAAT  
GTCAAGTTGGAAGGCCCAGGGTNACTTNTCNAAAAACACNGTGAGGGCTTTNGCTTGTN  
GTNCTTGTCCCC

Sequence 1024

CCGGGCAGGTACCCGGGATCCACGGTTGTGCCGGGCTTGCTGGCTCCACATGACACAGCT  
TGATAGCCCGGTGCTCTGCCAACTTTCAGGGTGGGGCCTGTGCTCTACGAGGGCTGAGAG  
CTTGTTGGCGGGGTCTCGGTGTGGTGGAGGGAACACCATCAGTGTGCTGGGGTGTGGGGTA  
GCAGGTCACCAGGGAAAGGAAAACAAAGGGGGAAGAAAATAGGGATGTATTGATACATTT  
GGGGGAAAACACAGCCCTGAGAGAGAATCAAGTGTCTATGTTGGCCCTGAGCAAAAGCGA  
TAAATACGTTTGGCTCTTCTGACCCAGAGGTGGGCATATGTGGCTGGGAATTCTGGTGGA  
AGTGGCTCATTGTCCATCTCTGGCCCAACTTGAGCCTGGTTTTTCATCTCTTAGCCCCAAC  
CTGGTACCT

Sequence 1025

CCGGGCAGGTACCGGGGGTGGAGGAGGGGTGGCTTTGGTCGCTGGACACACATCTCTGC  
CACGGTGACTGACGGAGGCTGTGAAAGGACAATCTGAGTGAAGAAAGTGAATGAGGTGCTG  
ATTCCACAGGGACTTCCTGAGATGGGCGGAGTGGCTCCCAGCGGACGGGAATTAGAGACC  
GCCTGAGAACAGGAAACCTACCTCCTCTATTTCTGGGTTCCCAAGTGTCTGCCCAGAGCC  
CATCATGTGGCAGAAGCTCAGGACGCAAATGTCAGGGGCAGAAGACTAAGTCCTTGCTCT  
GGGCAGGGGTGAGGACGTGTGCAGCTCCTTGGCCCCAGAAATTGTTCCCTCCTGCCTCAC  
TCCCTGGTGTAGAATTTGGCCAGACGCTCCCTGCCATGTGACTTGGCAGGAGCTCCCTC  
TAGANGAGGGTAGTGATATAGCTGTAATCTCACGTTGAGG

Sequence 1026

CCGGGCAGGTACCCGGGATCCACGGTTGTGCCGGGCTTGCTGGCTCCACATGACACAGCT  
TGATAGCCCGGTGCTCTGCCAACTTTCAGGGTGGGGCCTGTGCTCTACGAGGGCTGAGAG  
CTTGTTGGCGGGGTCTCGGTGTGGTGGAGGGAACACCATCAGTGTGCTGGGGTGTGGGGTA  
GCAGGTCACCAGGGAAAGGAAAACAAAGGGGGAAGAAAATAGGGATGTATTGATACATTT  
GGGGGAAAACACAGCCCTGAGAGAGAATCAAGTGTCTATGTTGGCCCTGAGCAAAAGCGA  
TAAATACGTTTGGCTCTTCTGACCCAGAGGTGGGCATATGTGGCTGGGAATTC

Sequence 1027

CGAGGTACCAACAACACTACTGGTTTGATGCAACCATTTCCCTTTTACGCAAAAAGGTGCAC  
TAAAAGTAGACCACGCATTGTTGTGTATCATTAGGCAAGCAATTTCTCTTCTTAGGCCT  
CACTTTTCCCATCTGGAAAGTAAAAGGGTCCAGTCACATGATTTCTGAAGTTCCTTACAG  
GGTCAGCGTCCTGGTGAGAAAACTATACTGCAGTGCCAAGAGGAATTGATGTAGGATTTT  
TCTTCTTGGTCTCGGGCCAGCAATGCCCCACCTGTGCCCGCTCGGCCATGCAGGTGTGT  
CCCAGCTCACTGTCCCGCGTACCTGCCCC

Sequence 1028

AGGTACAGTTGTTCCGGGTGAAGATTTTACAGAATTCAGTAAGGATGGATTATAATATG  
CTGAACATTTGGTTGCTTTTGTAATAATAGAGGTGGACAGCTGAGACAAATCTAGACAAA  
ATCTTACACTGACTANTTTGTAACGACATACGGATGACCCCTGAACTTTTAAAGTAACTTA  
AGAAATAGGCCGGGCACGGTGCCTCACACCTGTAATCCCAGCACTTTGGGAGGCCAAGGC  
GGGTAGATCACAAGGTCAGGAGTTCGAGACCAGCCTGGTCAACGTGGTGAAACCCCATCT  
NACTGAAGTTACAAGGATTGGCCGGGCGGTG

Sequence 1029

CGGATACCTGTCCGCCTTTTCTCCCTTCGGGNAAGCGTGGCNGCTTTTCTCATAAGCTCA  
CGCTGTAGGTATCTNAAGTTTCGGTNGTTAGGNTCGGTTGCTCCAAGCCTGGGGGCTGG  
TGGTGACGGAACCCCCCGTTTCAGTCCCGNACNCGCTGCCGCCCTTATTCCGGGTAA



Table 2

ACTATTCGGTCTTGGAAGGTTCCAACCCCGGGTTAAAGGACCAACCGGAACTTTAAATTC  
NGCCACCTTGGGCAAGCCTAGGCCCACTTGGGTTANACCAAGNGGAATTTAAGGCCAA  
GNAAGCCCNGAAGGGNTANTGGNTAANGGGGCGGGGTGGCCTTNCCAANGAAGTTTCCT  
TTGGAAANGTNNGGTNGGGCCCCCTTAAACTAACCGGGGCNTTANCNACCTTNAGNAAAA  
GNAACCANGNTNTTTTGGGGGTNATTTCTNGGNCNGCTTCCTTGGCCTTGAANAGCCCN  
AGCTTANCCCTTTNGTGGGAAAAAANGAAGTTTCGNGGCANGCTTCNTNNGAATCCCC  
CNGGCCAAAAACAAAAACCAACCCGTTCTTGGNTAANNNCNGNGNNGGGTTTTTTTT

Sequence 1030

CCGGGCAGGTACAGAAACATGGAAAAAGAGCGATGCTATTAAGGAGGAAAATGGAGCCAG  
GAGCAAAACCTAAGGCTATTTCTGAACTAAAGAGGTCTGAATAAGGTAGTGAAAGGACCA  
GGGAAAGCCTTCCACGGGGATGGAGAGCCACCTCCTCCCCGGCTTTCTGGTTCAGATGT  
CTTGTCTCAACAGACGGCAGATTTCGAGGGAAGCAGGCCGAGCCTGATCTTTCTCCGCT  
AGAAGTGTCAACAGGTGAAGAATCTTTTCCAGCACTCCTTGAGCCCTT

Sequence 1031

GCGGCCGCCCCGGGCAGGTACGCGNTGAGACTTTCCTGCCGGGCACATGGACCTGGCCCCAA  
CCCTCACAGCCAGTAGACGAGCTGGAGCTCTCGGTGCTCGAGCGGCAGCCAGAAGAGAAC  
ACGCCTCTCAATGGTGCCGACAAGGTCTTCCCTTCTCTGGACGAGGAGGTCCCCC

Sequence 1032

GAGTTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTAAAGAATGTGCATTTATT  
TGTGGGGAGGAGAGGAGGTCTAAATAGACAATAAACATATAAATATTAATATTGTGAAAG  
TGGTATGAAGAAAAATAAGCATGATAAGGAGAGAGAGGTGTTCCCTGGCTCTCCAGAGG  
GCTGAGGTGGAAGAAAAAGGACTCCTGTTTTAGGTAAGATATCAGAGAAGACCTCTCTGAT  
TGACTGAAATGTATGCAAAGGCCTGCATGAAGCCAGGGACCATGCCGTGCTGACATCTGG  
GGGAGGATTATCCTCACAGAGGGGAAAGGAAGTGCAAATGCCGTGAGGTGGGAGGACCAT  
GTTTGGTATGCTCAGGGAGGAACAGGGAGGGCCCGTGGGGCTGGAGCAGGTTCAAGCCATGG  
GAAGGCCAAAGATGAGATCAAAGAGAATAGTGGGAGATCACGTAGAGATTTATGGGCCAT  
TTGTGAGGATTGTGGCAGCATTGAGAAGACTGGGTTGATGCTTAAACAANCAGCCATT  
TTTAT

Sequence 1033

CCGGGCAGGTACGCGGGCTGCTCTTGTGGCACAGAAGAGGTGCCTGCACCCCTCCCTAGA  
GTGTTGTTCCAGCTGCCTGAGAACTGCCCTACAGCCCTACCAAGGTCACGTCTGCCTCA  
GAGAGCCTGATCACGGGCTCACCAGACCCAGTCCCACCCAGCTTTGCCCCCTCTAGCCAG  
CCTTGGGAGCAGAGCATGGGATGGGACCACTGAGAGCTCCACACCCCCCACCCTACCA  
AGAACACTCTTGATTCTTATCAACAAAGGCCAAGTAAAAATCCCACTGTCACTACTGC  
AGCTGCCTCTCACCTGCCAGCATCACCTACTGGCCAGGAGGTCAAACTGCATGTCCTGT  
CGCAGCAACTGTTGATATCATTCACAGCACTCAGACAGCTCTTACCTGCAGGCATTACC  
TGCTGGCCTGTAGGGGGAAGTGCCCAACCCAAATATNATTCCTGCTGACAAGGTCCTTNGG  
CCCGTTTANAACCTAGTGGATTCCCCNNGGCTTGCAANGGAATTCCGANNTTCAANGCTTT  
TTGGNNNNCCGCCNCCNTTNAANGGGGGGGGCC

Sequence 1034

AGGTACTTTTTTTTTTTCTTTTTTTTAAAGAGATGGAGTCTTGCTCTATCACCCAGGC  
TAGAGTGCAGTGGTGCAATCTCGGCTCACTGCAGTCTCCATCTCCTGGGTTCAAGGGATT  
CTTCTACCTCAGCCTCCTGAGTAGCTAGGATTACAGGCACATGCCACCGTGCCTGGCTAA  
CTTTTGTATTTTATGATAGACGGGGTCCACCATGCTAGCCAGGCTGGTCTTGAATC  
CTGACCTCAGGTGATCCGCCTGCCTTGGCCTCCAAAAATGCTGGAATTACAGGCATGTAA  
TTCCAACCTTAGACACTCAGTTTAAACCCTCTTATCCTATCTTCACTGGAAGAGCAAAGT  
AATCTCCTACCTTGTTTTGTCAATAAGAAGGAATATTATTAAGCCCCAGTAATCCTGTT  
GATTACCATAGTGGGCATGTTTCTCTAGAAGTAAGTAGAATCTTTGGGGTTCC

Sequence 1035

Table 2

AGGTATTTTGGAGGACAAAAACACTCAGTCTATAGCAAATGGGCAGTAGTTTTTGGGAGG  
AATGGAGAAGGTCAGGGCATTCTAGGTGGAAGGAACCTTCTAGGTGTGAAGGCACAGAGG  
GTGAGTGGTGTAAACATCACTTCCTTAGAGCTTTGCCACAGTGGGTCCAGGTGGCCATTT  
ATCACAGTGCTGATGGTGAAGGTGATTTCTTTAAAAATTGGAGCCTTGGAGGGTTTTTCT  
CAGTTCCTTGGGGCCTCATCCATGATGAGCTCTGTCTGTTTCATCCATGATGATCTTTACT  
GTGGGTTCTTTCATTAACAGCGGGACGGGAGGAAGGATTTTCCTTCGCATGGTTGTCATG  
CAGAGTGGTCCCTGGATGACAGAGCATGTGTGCCACCTCTGCGTGGCTTGATCCACCATG  
GAGGGCTGGTGTCTATCTTTGGCCTCTGAGCTTCGGTCGGCCACTCCCTGCATGAGGCTG  
GGGCTCTTTAACCCCTCGTGTCTTTTCTNCATGCTTGACAAAT

Sequence 1036

AGGTACCCATTTCAGAGTCTTACTTTTCTAGGGGCAGCTCGAACCTTTCACTGGACCC  
CCGCTTCCCAAGAGAGCATTCATGTGGCCCTTGTTCTCTGAACCTCTGTCAAAGATGACC  
ACTCCCTGAGGTTGCACACGAAGGCCAGAAAGGCTACTGACCTCAAGCTCTGCTGTGTCA  
TGTTTCTGTACACACAGCTATTCCTTATCACCCACGGTCACATCCGCAAAAGGACGCC  
CCAGTCCCTCCTCACCTCAAGCATCATCCAGCGAGGCTGTGTATGGTGTCTCTGATGGAA  
GCTGAGCCTGAGTCCCTGATCCCTCACTTCCTTGGCATGAGACTGAAGCCTGAGATACCT  
TACTTTCTCTGTGCCAGGCCTGTGCTAGGCATGGAGGATATGGAGGAGAACATTAGATG  
TGAGAAAGTTTTTAAAAATAAAGTCCTTCTGCTTTGGGTATAAATCTCANGAGTAAGCTA  
GTTTTGCAAGGCCTCCCCCTTACCTTAGCATGTATATTAACATATTCATGATATAAAAA

Sequence 1037

CCGGGCAGGTACGCGGGCATCTGATCGAGCTCCTGCCCTGCTCCCTACCCCTCCACAG  
CCTGGTTTTAAGGGTTTTAGGCCAAGGCGGATCAAGAGGCATTTGCCAGCAGCTGTTGAAT  
GTCAAGAGGCCTCGCCGCTCTGTGGTTCTTGTCACCTAAGAGAGAGGTGTCTGCCTGAGC  
AGCTCACAACAGGCAGGGGTGAGGAGAGGGGAGGAAAGNAAGGCAGGAGAGAGTCAGGG  
CCCTCCCATTTAGGNAAAACCTGGCTTGTTTTGCTTGAAGTGACCAGACCCAGAGGCCAG  
GCNAAGTTTAGAAAAAANGGAAAAGNATTAANAAAATAANAAAGTACCTTCGGGGCCGCT  
TNTAGAAACTTAGGTGGGATTCCCCCGGGNCTGCAGGGAAATTCNATATTCAAAGCTTT  
ATCCCGNTTACCCCGTCCGGACCTTNNAGGGGGGGGGCCCGNGGTGACCCAGCTTTTT  
GTTTCCCTTTTAGTTGGAGGGGGTT

Sequence 1038

AGGTACATCTTCTCCATGAGTGGATCAAGAAATATTGAGATGGCTAAGCTGGAAATTAC  
AAAAATGTTGGCATACTATTATAGCATATGGTTATGAAAATCAATGAATATTTATATTTA  
GTATTATGCTTTAAGTATATATCCAAGCTGATCAATTAATTACACTTTCACTGATGAGAT  
GTCAATTCTACATTTAGCTGAACTCTCATCTGAACTGTGTGGCTTCTCAATGACAGGACA  
TATTAAGAACATGATGAATGTTGTAATGTAATGATATAAATTATTATAATGTGTTGCA  
TTAAAGACACATGGTGTAGCATTCTACGTTACGCTTTTGCATTTATTTCTCAGTGTCTAT  
GATTTGCTCCTGTGATTCCAGATCAGTTTTCTCCTTATCAGTCAGCATATACATATTGGT  
ATTAACACTTTTTGCAA

Sequence 1039

GATAACCGCNANGGAAAGAACATGTTGAGCAAAAGGCCAGCAAAAAGGCCAGGTAACCCG  
TTAAAAAGGCCCGCTTTGCNTGGCCGTTTTTTCCATAGGGCTCCCGCCCCCTTGACC  
GAGCCATCACCAAAAAATTCGNACCGCTCAAAGTTCAGGAGGTNGGCGAAAACCCCGACA  
GGGGACCTTTTAAAAAGATACCCAAGGCGTTTTTTCCCCCCTTGGAAGCCTTCCCTTTCG  
TTGCCGCTCTNCCTGGTTTCCCGACCCCTTGCCCCGCTTACCCGGGGATTACCCCTT  
GGTGCCCGCNCCTTTTTCTTTCCCCCTTTCCGG

Sequence 1040

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGAGATGCTAAGAA  
TCTAGCCATGTAAAAACTCCCAAACATCCAAATTCAAAAAACTGGAATCTAACGTGGT  
AATGCAGTTGTCAAGAACACGCAATAGTCTTTGGGCTTTTACAAAGCACTGAAAACTAAA

Table 2

TGTTGCATTTGTGCCCTTATCTTCCACAACCTCTTTCTTGGCAGCTTTTCTTGGCTCACT  
TCAGACACACAGAGTTTCAAGTAATCAGGGAAAGTTGGGACAGAACTTCCTCTGTCTTT  
CCATGGCCTTTTCTTTTCTTTTACGGATCTGTGATCCTATGCTTTCTCTCACGTTCA  
TTATATGTGTCAGTTGGAGAAATCTTGATGCCAGTTTCATTTGNTTCTTCTGTCCCACC  
TGTAATAATTTAGGTTGAGTTCTCCGGCTCATGTATCAGAGTGTGTATGACAAATTATC  
TCAAAGCCCAGAGGGCCTCGGTGGTCCAAGTCCCAGCAACAA

## Sequence 1041

AGGTACTTTAGGAGACCCAGGCGGGCAGATTGCCTGAGGTGAGGAGTTTGAGACCAGCCT  
GGCTAACATGGTGAACCCCTGTCTCTACTAAAAATACAAAAATTAGCCGGGCATGGTGGC  
TCACGCCTGTAGTCCCAACTGCTTGGGAGGTTGAGGCAAGAGAATCNCCTGAACCCAGGA  
GGTGGAGGTTGCAGTGAGCCGAGATCCGCGCCACTGCACTCCAGCATGGGCCGACAGTAT  
CAAAGACTCCATCTTAAATTAATANAANGAAAGGAAAAACAAAANGAAAAAGTAAAAAGC  
TTATTATTTGAACCTTTCNTCTTAAANAAAAAGGAAAAAAGAAATGGAAAGGCCCTG  
NATTGCCNNCACCNNAAATTCTTAAATTTTNGGCCAAGTNCGAATTCAAATTTAAAAA  
GGGGATTATTTTTATTTTTGCCATTTCANCAAAAAAATANAATTTCTTTTTACCTTC  
CCCCCCCCAAAAAAATTCNNAATTANAAGTTTCAAAAAATTAAGCCAAACCTTT  
TTTTCCCTTAAATTTGGTTGTTTTTAAAAAANTNGTTAAATTCACCCNAAATTTA  
CCATTTGGTTGTTCCCCCAAACC

## Sequence 1042

TCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAATAAGATAGTTGTTTAAGACTATAGCT  
CTCTAAAGAGTAGTCTTTTAAATTTAGAGAATTTCTTTATCTCATAAGTGACTCAAGCCA  
AAAAGGCTTTTTTTCATGGAAAGTCCCTGAGGTAACCTTCTGGGTTTGAATACGACAGG  
CAAAATTGGCATCTTTTTTAAATGGGTGCGAAAGATGCAGCCTTCATGATCCTCCCCA  
AAATTTACTCCCAGAAATAAGCTAAGATAGCATATCTCTGTTGCCACAGGCGGTTAAGGA  
TGGTGCAGCTGGTCTCCCTATGAGCACATGGACACGTGGCCACATGGGGGTGCCTNTAGT  
CACAGACCTGCCAACCTGTGACCGCCTGTGACACAGGGCANGCACTTTNAGGGATTAAGA  
CTTTCCAGCACTAACCAGGCAACAAAAGATGGAAGCAACCAGAAGCCCTTTC

## Sequence 1043

CGNCCGGGCAGGTACATGGCAACTGAGGCAAAAGAGCTCTTAAGTTACTTATCGAAGAATA  
TCCAATAAGTAGGTGGTAGAGCTAGGATTTACACCCAGCANTCAGCTTTATTTTCAACCA  
TGCAATTGCCTCCTTAACAAAGGAGATAGGTTAGGAAAGGCAGATCTGGGCAAGTGTTGT  
ATTATACAACAATAAAAAGGCTGTGGGGTCAAAAAGCTATGGCTGTAAAAGGTTAGGGT  
TAACAGCNCANGAAGTAATCACCCCTTAGGGGAAGGTTAAAATTTTATAGNACAAACATC  
TATGGATTCTTTCCCAAACCCCTTAAATCNTTTCATGCCTTTTTAAAAAAGGAATTC  
CTTGCCCCAAGGCCGTTGGGTGGCNTNACGCCCTGTTATATCCCCAGGCACCTTTTGGGG  
CAGGGGGGGG

## Sequence 1044

GGGGGATAAGACCAGCGAGGGTCTCTAGTTTGCTAATATAGACTGTAGAGGAAGAAGGGA  
GAAGAAGGTGACTGAGCTGAGAAAGGCTTGGGCAGAGGGTGCAGGGAGACAGCTGAGCGG  
ACCTCAGTGGTGGGTCTCATGACTGGGATGCAATGAGACTGATTTTCTCCTTCTCTAAG  
GGAGACTTGACTTGTCTAAGGGGAAACAGAAATTCAGAATTTGAGCTGAAGTAGCAA  
ATTCTGATGGCCCGCAATGTCAAATTTCCCCAAAGAAGCCTGCTTGATTCTATGACT  
CCTTCGAAGGTGTCCAAGTCCCTTCTAGAAATTGTGAAATAGGNTTGGCGTGGTGGTGTG  
AGCCACTTGTNACGCCAGGATCTTCCTTTTTAAATCTNTCANGGCACCTTTTNTGAAAGC  
TNCTCTCAGTGTGGGGTTAGNGAATTNAGGTGGGGCCACTNTTTCNCANTTTCAAAGA  
GAGGAGCCAAAGGGGCTCCCTTCTTTATTTCTTT

## Sequence 1045

CCGGGCAGGTACTATCCTAGACAGCTCTGGGAGTGTTACATAACGTATGGTAAGTGTGCT  
ACATGGCCTTTCTGAAGCCCAAACCATTTGCATTATGAAAATACCTGGCCCCAGGAATT

Table 2

TCAGATAAGGGATTGTGGACTTATATTTTAAATCTGTAACCTCTATAGACAGTAATTTCA  
TAGAGCCAGCTTCATGGAGTTGTAATATTACTGGGCTAGGGTCAGTTTCCTCATTTTAG  
GCTTCCTTTAATCCAGTCCAGACACCAAATTAATGTCTTTGTAGTCCCCTTCAAAGC  
CTCTTGCAATCCCAGTCATGCTTCAGGGTAGGGATGATCCCATTAATCCAAGGACCTGTC  
CCTAGTGATAGAAGGAAATGGGTGGGAGCCACGGGATCTGGGATTGCAGTGAGAAGTNGA  
CAAGAAAACAAC

Sequence 1046

TGCTGGCCGTTTTTCCATAAGGCTCCGCCCCCTTGACNAGGCATNACAAAAATCGAACG  
CTCAANGTCAAGAAGGTGGCCGAAACCCGNACAGGGACTATTAAGGATACCAGNCCGT  
TTTTCCCCCTGGGAAGCCTCCCTTCGTGCCGCTNNTTCTNGTTCCGACCCTNCCCGCTT

Sequence 1047

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCGTCACCAGG  
GAGTCCGGCGCATTATAACCAGCAATGTTTGTAAAGCATCTAGATTACTGGGGAGAGAAA  
TATTATCCCAGATGGTGAATGGAATTAATGGCCACCCCAAGTGTGTCTCCCCGTCCAAG  
CAGGTATTGCCACCTGTAGGATTGCATACCTAGAGGGCCCCCAGGGAACAGGAAGAGT  
TCTCCTATAATTGTATCGCTGTAATGTGTAATTGAAGTAACAAAGGTGCTGTGTTTTGT  
TGGGCAAGGGCAAAAATAGACTGTTTGGTTAAAGAAAGTCCAGGTTGGATTCAAGTGT  
ATCCCGGGCCAGGCGCGGTGGCTCACACCCGCAATCCAGCACTTTGGGAGGCCGAGGAG  
GGGCAGATCACCTGAAGTCAAGGAGTTTGACATCAGCCTGGGCAATACGGTGAAACCCCGT  
CTCTACTAAAAATACAAAAATTAGCCAGGCG

Sequence 1048

CCGGGCAGGTACTTGGAGGGTTTGCTGAGTGCACCTTTGTAGGAGGGCCTGGAGTGGGAC  
GAGAGGCAGCCAGTGGGCTGGCTCCCTCCAGATGTGTTCAGGCGCAGCAAAATCATT  
GGCATTGAAAATAGGGAAGTAGGCCGAGTACCT

Sequence 1049

TTCAAACATCANCTTTGATGTCTATTGTCTGGGACTTCAAGAGGACTCTTAGCACATNGG  
CAGGTGTTGGTTTTAGTGAGCAGGCGAGAGTCCCACATTCTCCAAGGAGAGAGATGGGT  
CCCACCACATTCTACCCCTAGAGCANAAAGTCCCGCGCTGNGCCTCTTCTCTGGCTGCT  
TGCTGAGGACGTCTCCAGTGGGGTACCTGCCCGGGC

Sequence 1050

TTCAACTTTANTTAAGNNGGNCCGNAGAGTTTGGGGTAAGTCCCTTCNCAACNCCGNCGGG  
GGGTGGGGGCCGGGNTCCGCCCCGGGGGACCAAGGGNTTACCGGCCGGGGGNNATTCA  
ACCAAGNNCCTTNACCGTNGNTTGGCCCCANGGGGCCAAGTTCCAATTCCAATTTCCCCC  
CCCCAANGAAGGGTTGGAACAAGGGGCCTTACCAAAAGGGGCCCGGGGGGGGTTTTTTC  
CCTTTACNAAAGCCCCCTTGGTTCAAAGCCCCCTTTTGGCTTGGAATCCGAACTTTTAAT  
TTTGGGGGGGGGTTGGAACCAACCAAGGAATTANTTTGAACTTTCTTGGGGNANTTN  
GGGAAAAATTGCGNCCNTTTTCCCCCAGGCTTTGGAACCTTTTTTTTCCCAACC  
CCTTGGGGAANGTCCCTTTTTGGGGGGAAAAATTAACCCCGGNGACCCGGGGGAANA  
CCTTTCCTTTTTTTAAATTNAAGGGGTCCCCAAAATTTGNAATTGTTGGGAAACCCC  
CCAANNNTTCCCTNGGCCAAANGTTTTTTTTGNGGGGGGANAAAAATCCAAANNCCCC  
CCCCCAATTTCCCGCNGGTTTAAAGGGNNGTGNGCCAAGGTTCCCNAAACANNA  
AAAAAACCTTGGGTNCCCCCTTGGGAAAAANTTTTTTTGGGCTTTNTGNNTTGGCCC  
CNAANNGAAAAACNCGTTTNGNCNTTNAAAAAAANNGGGGAAAACCCNTTTTTGNA  
NAATNGGGCGTTTTGGGAAAAAANTNTTTCCANAAATTTTCCCNNTTNGTGGGGGA  
AAAAAA

Sequence 1051

GGTGGGGNCGGGGCCCTCCGGGTCCGGGGGTAAGGGGCTTTGTACCNNAAAGNTAAGTCCC  
CGGGGGNTAAGNGGCCGTTTTANGNCCGTAAANGNGTAAAGTAAGACAAAAANATACC

Table 2

CCGTANAGTAACCGNAAAAGNCNCACCTTTACCAAGGCCGGTTCGCCAANACCGNCCGG  
GGCGCCGGGGCCGTTTCTTGCTTTTTTATTAAGGGAANNAAGGGGGGCCCGCAAGGGCC  
CNCCCCCGGCCGTNACNCNTTCCGGGCCCGGCTTCTTAGGNAAACCTTAAGNTNGG  
GAATCNCCCCCGGGGGCCTTGCCAANGGGAATTTTTCCGGAATTATCAAAAGCC  
TTTTATTCCGGAATTAACCCCGTTCCGGACCCCTTCGNAAGGGGGGGGGGGGGGCC  
CCCCGGGGGTTAACCCCCCAAAGACCTTTTTTTTTNGGTTTTTCCCCCTTTTTTAAGN  
NTTGGGAAGGGGGGGGTTTTAAAATNNTTGGGCCGNCCCGNCCTTTTNGGGGGCCCGN  
TCAAAAANTTNCAAAATGGGGGTTCCAAATTAAGCCCTTGGNTTTTTCCCCTTNGGT  
TGGGTTGGNAAAAAAATTTGGGTNTTAATCCCCCNGCNTTCCAAACCAAAAATTT  
TTCCCCCAACCCAACCAAAAACCAATTAACNNNANGGCCCGGGGGGNAAGGCC  
CAATTAAAAAAANGGNTTGGTTTTAAAAANGCCCTTGGGGGGGGGTTGGCCCCCTTA  
AAAANTTGGGAAGGTTGGNAANACCCTTAAAAACCTTNCCAACAATTTTAAAAATTTTG  
GCCCGGGTTTTTGGGCGNGGCTTCAAACNTTGGNCNCCCGGCNTTTTTTCCCCAAG  
ATTCCCCGGGGGA

Sequence 1052

CGGTCGTTCCGGCTGCGGCCGAGCGNNTATCAAGCTCACTCAAAGGCGGNTAAATTACGNG  
GNTATTCCACCAAGAATTAGGGGGGATAAACGCCAGGGAAGAAACATTGTGAAGCAA  
NAAAGGCCAGCTAAAAAGGCNANGGGAACCCGTAAAAAAGGGCCCCCGCTTGCCTG  
GGCGGTTTTTCCATAAGGCTCCCGCCCCCTGGACCGAGCCATCANCAAAAAATTCGG  
ACGCTTCAAAGGTTCAANGGTTNGGNCGGAAAAACCCCCGACCAGGGAACCTANTTA  
AAAAGNATAACCCCNAGGGCGGTTTTCCCCCCCC

Sequence 1053

GGGAAAGNCCNTTCCCCCAACCCCGTCCGGGGGTTGGGGGGCCCGGGGGCCCCGGGNCT  
TTCTTTAAAGGAAAAACCTTTAAGGNTNGGGGNAATTCCCCCCCCNCCGGGGGNCC  
TTTGCCAAAGGGGGGAAGAATTTTTCCCGGAATTTAATCCCAAAAAGGCCTTTTAA  
ATTTCCCGGAAATTTGACCCCCCGGTCCCGGAAACCCCTTGCCNGAAGGGGGGGGGG  
GGGGGGGGCCNCCCCCGGGGTTANCCCCCAAAAGCCTTTTTTTTTGGGTTTTCCC  
CCCCNTTTTTTAAAGGTTNGGAAAGGGGGGGGTTNTNAAAAATTTNGCCCCNCCCCG  
CCCTTTTTGGGGGCCCNNGNTTAAATTTNCAAAATNGGGGGTCCCCAATTAAGGCC  
NTGGGGTTNTNTCCCCCTNGGGGNGGTTNNGAAAAAAATTTTGGGTTTAATTCC  
CCCCGGGCTTTNCAACCNAAAATTTTTCCCCCAACCAACCNAAAACCNAAATTAACC  
CGGGAAGNCCCCCGGGGGGGGGAAGGCCCAATTNAAAAAAGNTTNGGTTTAAAAA  
AAAAAGCCCCCTTNGGGGGGGGNGTGGGCCCTTTAAAAATTTGGGAAGGGGTTNGG  
GAAAGGCCCNNTAAANCCTTTNCAACNNAATTTAAAAATTTGGGNCGGTTTNGGG  
NGGNCCTTTAAAAATTTGGGGCCCCCGTTTTTTTTTCCCAAGTTNCGGNGGNAAAA  
AAAAAACCTTTTTNTTATGGGCCCCCNCACANNGGNNTGGTTATTTAAAAA  
AAAAGGGGNNNNNNNANAANCCCCCCCCCNAAAANAAAAA

Sequence 1054

AGGTACAAAATGTTCTGCAATAATGTCTCAATGTAGCAATAAAGAACTTGAAAAA  
CTGCCATTATTTTTCTTTCTGCCAAATAGCAATTGTCAGGCCTGCCATTTCAATTGA  
CCATTCTCTAAATAGCTCCTCCCCTGGACTGGTCTCAGATATTGGCTGAAGGTCATAAT  
GGGAGGTCACATAGCATTTGAGGGAAGTTNGATGGGCAAAATCAGTTTCACATTGGAAGN  
ATGTTTAAAGGAATGGCACAGGGACGAAAAGNACAAGTAATAGCTACAGTCCATTGATGG  
TTCATTTCACTGGATTAGNCAACTTCATTCATTTAACTCCANTTTGNCCGNAGCCTTCA  
AGTTAAACCCCTACCGTTTCAAAGTCCATTTAATGNCCATGTTTACAATGAACTTTCTT  
TAATTTAACTTNCAGTAAGATNATTTTTTCCAAGTTTTTTCTTATGGTAGGAAGTTAGG  
AAGTTAACCTNCTATTATTTTTGNTAATTAACCTTTTTTAAATGAAAAATGGTCTTT  
TAATTTTTTAANTTTTTACCTTTTCCCTTAAATNGGCCTTTTNCCTTTAANTTTTTT  
TTTTTTGAAATGGGGCCTTTTGCTTTNGGAATTTAATTGGTGGGGTAANGCCTTT

Table 2

TTTTTGAAACCTTTCNAAAAAN

Sequence 1055

GNGTCCGAAAATTGGGGNAGNCTTCCACACCGTCGNGNTGGGCCGCGNCCGNAGGGGT  
CGNCCGGGGNAGNAAGTACCATTGGGGTAAGGGGGTAAAAGGGGGGAAAAGGGGNCT  
TTTTTNTTCCCAACCACAAAAAGGGGGNCAAGNNAAGNAGGTTCCCGTTCCTNAGGAA  
TTTTTNTTGGNCTNGTCCCTGGCCCAAGNCTTCTTGGCCCAATGGCCCTTGGGAAGG  
GGTGGGGTTNCCCTAACCCCTTCAACNGGGGGGCCACCCCTTAAAGCCNTTGGCNTT  
GGACCAAGCCCCCTTTTNGTTGGGGCCCCGCCCGNTNCCCCCAATTNCCCCCTTNGG  
CCCCCTTCNAAGGCCAACNACCAACCAANTTTTGGCAAACCAACCAACCGCCAAAGGCT  
TTTTTTGGTTTTCTTTNNAANCCCNTTTTTAAACCTTTGGGTTCNNAATTTTNC  
CAAAGCCANTTCCCCNTTNGCCCCCTTNTTTTNGGCCCAACNAAAAAACCTTTGGG  
CCCCCCNAAAGCCAAAAANGGAAAAATTTTTTGAANGGGGTTTTNTTGAACCAA  
AACCAAAGGTTAANCCCTTGGCCCCGGGGGGGCCCGGGGGCCCGTNTTTNTAANN  
AAAACCTTAAAGGNTNGGGGAATTCCCCCCCCCGGGGGGCCNTTGGGCANAANGGA  
AAATTTTTCGGAAATTANTTCAANAGNCCCTTTTAAATTTTCGGGAAANTAANCCCCGGT  
TCTGNAAAACNCTTTTNAANAGGGGGGGGGGGGGGGGG

Sequence 1056

TCTTNTCCCGCTTTGCTCTTCGGCTACAACNTGGNACCTTCGGCNTGGACGGGCCTTCGG  
GGGTNCNGCTCTNCCGNGTCTNAGACNGGTCNGGAAGGCCGNGNTAATTCAAGGCTTCA  
ACGTTCCAAAAAGGGGGCCGGGTNNATATTACCGGGGTGTAATTCACCACAGTNAAATTC  
ANGNNGGGGTATTANACCGTCNAAGGGGANAAAGGAAACCCATTGGGTGGAAGNCCAAAA  
AAAAGGGGGCCAGGCNANAAAAAGGGGCNCAAGNGNAAACCCCGGTNAAAAAAAGGGG  
GCCCCGCCGTTTGGCCTTTGGGCCCGNTTTTTTNCCTAATTAAGGGGGCNTTCNCCG  
GCCCCCNCCCCNTTGGGACCGGAAGGTCAATTTCAACCAAAAAAANAATTCGGGGA  
ACCCGNCCTTCCANAAGGGTTTCAAAGGGAAGGGGTTNGGGGGCCNGNAAAAAANCT  
CCCCGNNANCCCCANGGGGAANCCTTTAATTTAAAAAGGGGAAATTACCCCCAAGGGG  
GCCCCGTTTTTTCCCCCCCCCTTGGGGGAAAAAGGCCTTCCCCCTTTCGGNTTGG  
GCCCCGCCCTTNTTCCCCCTTGGGGTTTTNCCCCGGGAACCCCCCTTGGCCCCCGNC  
NTTTTAAANCCCCCGGGGGNATTTACCCNTTGGGTANCCCCGGCCCCCTTTTTTTCCN  
TTCCCCCTTTTTTNGGGGGGGAAAAAGGCCCGGTGGGGGGCCCGNCCNTTTTTCTTT  
CCCAANTTNAANGCCCTTTCNAACCGGCCCTTGGNTAAAGGGGGNTNAATTTCTNTTCAA  
AGTTTTTTCGNGGTTGGTTAAAANGGGTCCCGNTTTTNCGGCCNTTCCCCNAAAGGC  
CTTGGGGGGGCCCTTNGNTNGGTTTGGCCANCCCCAAAAACCCCCCCCCC

Sequence 1057

AAAAAATCAAGCTATTAGCAAGGACGGGGAACCTGTAGTGAGTTTGTGTATCAGCCAC  
AAGCCGTGTTGCACTGAAGTAACAACCTTTTTAAATCTCAGAGGCTGAAATGCCAACAG  
CTTATTTCTTATTCACAATACATGCCTATTGAGGGCTGGTGGGTCTCTGCTTGCTATTGT  
CACGTGGGGATGCAGGCTGACGGAGCAGCTACCATTGTGAATGCTGCTGGCCGGCATCCA  
GGAGGCCCTAGCAGGTCTCTTACAGGTAACCTGAATGCTCCAGCCAGAAGTGACAGGTCAC  
TTCCACTCGCAGCTCATTGGTCAGGACCACTCACAGGAATCTGCCTAACCTCATGGGCAT  
TTTTGAAATCTCTTCAACTTTTTGAACTGCTTCAAAGATGCCTCGTATTGTGAAGGCAC  
TGACACCACGTCCTGGGTGCTTTGTGCCCTAGGGGAATGGCTGATGTCTCTANGCCCTTT  
CTGNGNCTNCTTCATCAANCCCCCGNGAACCATCAAAGGACTAACTGAAGTCCCTTTC  
CCGNGGNTTTTTTTTTGCCAGGGCACGGGGGACCCCAATTTCCCANCCCTTGNTT  
GGGGGGCCTTT

Sequence 1058

GGTGTGGTGGCTTATGGAGTCCCTAACGTTTGCACAAAATGGTTGCTACATTCCACACTC  
CCATGTGCCCTGAGCAACCTCCAGGGAACTTCAGATACCGTGGGGCTTGGCCTGCCAGC  
TGAGCTGACCCAGCGATCCTTCTATCACAGCTTTGATCTTCACTGGGTGGGAGCCTGT

Table 2

CTGAATCTAAACATCTGCCTCTCTACTGCCACCCCTTCGGCATTTCCTAGCTCTCCCTG  
AAAGGTGCAAACATGCATGCAGTTACTCAAACAGAATATTTATCCTTAACCTCCCTGTCCT  
TCACAATTTCTTTTAAACAATCCACTATTGTCTACCCCGCCCCCGCATCACCCCTTCA  
TCCAGGTGCCCATTCCTTCTCTCTAGTCCTGCAAT

Sequence 1059

CGCCCCNGTTCGGGGCCCCGGGNGCCGCCGCCCNCGGGCCCAAGGGGTACCCAAAAGNAA  
TGGTCTTGGCTTTTGGCACCCATTAACNNAAGGGAGCGNGCCGGGNCNTTGGGGGAAGG  
CNAAGCGGGGAAGTANTNCCGGCNTNACCNTTTCACACCGNCTAAGTCACTTNGGCATAC  
AGAAAGCGGACNCAAGAGCAATTGGCTCCAAGGTAATTGNGCNTTTGGGGCAATTTGGGN  
CCATTCCAAGNGGGGAAAGGCCCTTCTTTTCAAGGGGAAGNGNTTNGNTTGGGGTTAA  
GTCAAGACTAGGCCTAAAATNTTTCCACNAATTCAATATTNGNTTAANTAAAAGNAAAG  
TTCCAAGNTTGGGGTAAATNGGGGCACCANGGGGTNGGGGTNTTTTCTTTTCCCNCG  
ANCCANCGGNAAGGNAGGGAAAAAATTCCTAANAGNTNTGGGTTCCTTAAATTTNGGCC  
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NAANTTTCTTTCCAAATTTCAANGGGGGCCCCCANAAGNNTTGGGGGAAGTGGAACCT  
TGGGGGCCCCCAAGCNAAGAGGGGGGCCCTTGGCCAACNNAATTGGCCAAAAAACCC  
TTNCCCNAAAGGTNCCCCCCTTGGCCNCNTTTTCAANGAAAAAAGGCTTTTGAAAAA  
AANAGNGGGGGGTGCCCCCTTGGGGGNCCTTTNTTTTAAATTTTNTNAAAANGGGG  
GCCCTTTTTTGGCCCAANTTGGCCCGGCCCTTTCCTTAATTTTTTCCCCCCCCNTTCC  
TTGGCCCCCTTTCTTTCCCCCNCCACCCCTTTTTT

Sequence 1060

CCGGGCAGGTACCTCCGATGGTCCNNGGGGTGACTGCTAAAGAGAACCTATGAAAAAGAGG  
NTGTNTAAATTCATCCTTTTNAAGGGGTGGTGAGAGGTGCCAGGTGCTATNNTGCAGAG  
AAGTGTNAACCAAAAACCTGTAAAAAANAGCCAAGTAGGCCACAAGTGGTGGCTCATGCC  
TGTAACCCCAACCCTTTGGGATGCCAAGGCNAGGCAATACCACTTAAGACCAGGNAGTT  
TGAAGACCAGGGCNGGGGTNNACACAGNGCAGTATCCCATNCTCTAAAANAACATNAA  
ACNTAGANAATAATTTAGCAAGGGGTGTTGGTNGNGCACACGGTCCTTGCTGGCACCTCCA  
AAAGGACCCGAGGGTGGNGANGGGATTGNTTTGACCCCTGGGGAAGGTTCAAAAGGCT  
TGCANTTTGGAGCCAATTGACCACTGGTCCAACCTGTTTAATTCNNAACCCCTTGGGGN  
CANACCAGGAAAGCCAATGGAACNCGTGGTTCNTTTGNANAAAAAAGGGGCC  
AAANAAATTTGNNCCCTTAAGAGGGNAATTGAAAACCCCGTTGGGAAAGNCTTGGATANG  
CCACNTTCTTNTAGCAAAAAACCNATTGGCCATTGGGTTCCCCCTTGGCCCCGGGGGT  
TGNCAAANTTGGGCTTTTAACCGCCCTTTGGTTAAATCCCCNANGCNCCTTTTTTGGG

Sequence 1061

TGCGCTCGGTCCGTATCGGCTGCGGGCAGAAGCCGGTTATCAGCTCACTTCAAAGGCCCGG  
TAATACCGGTTATTCCACAAGAATCAGGGGGATAACCGCCANGNAAANAACATGTTGAN  
CCAAAAGGGCCAGCAAAAAGGGCCAGGGAACCCGTAAAAAAGGGCCGCGGTTGCCTGG  
GCCGTTTTTTTTCCATTAGGGCCTTCCCGCCCCCCCCCTGGACGAAGCCAATTNACCAA  
AAAAAAATTCGNACCGCCTTCAAAGNNTCAAGGAAGGGTNGGCCGAAAAAACCCCCC  
GGACCAAGGGGGACCTTNATTAANAGGNATTACCCCAAGGGGCCGTTTTTCCCCCCCC  
TTGGGGAAAAGGCTTNCCCCCTTCGATGGCCGCTTNTTCTTGGTTTTCCCGNACCCC  
TTGGCCCGGCTTTTACCCCGGGGAANACCCTGGTTCCCGGCCTTTTCTTCCCTTTCC  
GGGGGAAAAG

Sequence 1062

AGGTACGTGTTGGCTGCTTTCTTAAATTGTGGAATTAAGGAAGGGCTGAACTGTTACT  
CAGATTTGAATAGAAATGAGGAAGAAGAAGAACAGTGAGATAAGGAGATAGTGACAGTGA  
TACATGTTGACAATTCCATTGAAAAAGAACTTGGCCGGGTGTGGTCNTTACGGNTGTAA  
TCCCAGCACTTAGGACACGAAGGCCGAAGCATCGCTTGAGCCAGGAATTTGAGACCAGC  
CTGGGCAACATAGTGAGACCCCCATCTATATAAAAAATTTAAAAAACTTGCTGGGTATGG

Table 2

TGGTGTTCCTGTAGTCCCAGCTACTGGAGAAGCCGAGGTGGGAGGATCACCTNAGCTC  
GGGAGGTTGATTNTGCGGTGAGCCGTGAGCACNCCACTGGACTCCAGCCTGAGCAACAGA  
GTCAGACCCTGTCTCTAAAAAGAAAAAG

Sequence 1063

AGGTACACGAGATTAAATTACATAGTTATCCTAGCAAAGATGTTCTGCAACATGTTTCAT  
TATAATTGTTTCAGAAGTGCTGAAAATCATTTATTTACCATATACCCATGTTTGCCTA  
AGAAAAGTGAAGTGATCTAAATATAGATAGAAGNNTATATCATCCAGCACATTACAG  
CTTTTTTCTTATTATTATGTGAAAAGAAAATAAATTACCACATGACTATTTTTTAGT  
TTTAAAAAGGAAAGATAAAATATTAATAACTCAAAGTAAATACACTTCCTGTGATATAA  
GTNATNCAATCCAAGCCACCTGACCTTTTGTTTGAGATTAAAACCTCTTAAATATGAAGGA  
AATATAAAAGTATCCCTT

Sequence 1064

CCGCGGTGGCGGCCGCGCCCGGGCAGGTACCATTACCTGTCTTCAGCAACTACCAGCA  
AATGGCCAATTTGATGTCATTTTGTGTCAACCTACTACCTTCTAAGCCAATTGGATTAT  
CTTCCAAAACATCCCAGACCTTATATCCTGTACACATAAGTATTTTCAAGTCTAAGGTA  
GTCTTATCTAAGGTAGTCTTTTATGCCATCTTATGCCTTTATGTGTCCAATTATTTCTG  
TTAAAGTTCCTCATTTCTCCTCCATTTTTCCATTTTAAACAAAAGCCAACTCTTCTGTGG  
GCTTTTTTTCTTTGTATACACATGGTTNCAGCCACCCTGAGGTCAAGCTGCTGCAATGC  
TTTATTTACCTTGNAGATATTGGGTATATTTAGTATTCTCTTATCTGCAAGCTAANGAG  
ACAAAAAATNACAAAACCTCTTAATCTGCTTNCCTTTTTCTCTTTTTCTCTTGTGGAC  
TTCTACTCTTTGCCTCTTGGGAAGCTGGGCAAACCTGACAAGCTCATAAAATCGTCATT  
CTCTGAAACCAGGAAGAAGCCCT

Sequence 1065

GGAGCTCCCCGCGGTGGCGGCCCGAGGTACGGTATATTA AAAACAATCACTGCAGCCCTT  
AAATGATCCAATAGTTTAGCTTTGAATGCATTCAAGCTAATGGGGGCTTTAATGGCTTCT  
GACAGATCATTCATTGATCAAGGGGCATGTATGAAATACGCTGCCTACTAACTCTGTT  
TTGATTTTGAGAAAAGAAAACCTAAACGTCCATGGTAAACATGGCTTGATTGTTACATGT  
TCACCGAGATCCCTCTCAGCGTGACCCTGGTTGGGAGCAGAGGAGGGAAGGATAATGGAA  
TCCTATATACCTGGTTTGCTTCTCTCCTGACTCTAATCAAGGCATAATCAACGGGAAACC  
TCTGTCTGCAGAGTTGGGGGCAGGGGGAAGGAAGGTGACCAGCGGTCCAGTTTTCTGGGT  
TGGATGAAGTTATAAGCCACGGCTTTGGCTGTCTGAGAACTGATTCATCTCTTGCAAGC  
CTTGGGGGTTTGAAGGTTAACTGTTCTGGTTCCAACGTGGAAAGCCCGAATTCCTATTT  
GAAAGGATAATCAGGTTTTTCAGTTGGGGACAGCAGTTTTTGCAAAAGAAACAAATGAAA  
AT

Sequence 1066

GGCTGGCCTTTCCCTTTGGGAATGGTGGGTAAACCGGTTTTTTNANGGCTCCCCCTNTCC  
CGGAAATCCGAAACCCCTTGATTCCCCCGGTCAACCCCGGTGGGTNAACCATGGGTAGGG  
CAACGGGNGAACTTACCATCGAAAAGTTTGAATAGGGGCAANACGTTTCCGAAATGGGG  
GTTCCGTTTCGCCCGCCCCCGCGGTTACCTTGCCCGGGCGGGCCCGNTTNTAAGAACTA  
AGTGGGGAATCCCCCGGGGCCTTGCAAGGGAAATTCGGATATCAAAGCTTTAATCCGATT  
ACCCCGTCCNAACCTTCGAAGGGGGGGGGGGGCCCGGNTACCCAAAGCTTTTTTGTTT  
CCCTTTAAGNGGAAGGGGTAAATTTGCNCCGNTTTGGGCCGTNAAATCAATTGGGTCA  
ATAAGCTTGTTTTTCCCTGTGTTGAAAAATTTGTTTATCCCGTTTCAACAAAATTTCCC  
ACACAAACAATTACCGAAGCCCCGGGGGAGCCATTAAAAAGTGGTAAAAAGCCTTGGGG  
GGGTNGCCCTAAATTGGAAGGTGGAAGCCTAACCTCACCATTAAATTTGGCCGTTTTGC  
CGCNTCAACTTGCCCCGCTTTTTCCAAAACCGGGGGNAAAACCTTGTCGGTGGCCAGCT  
TGCNATTAATAGAAAATTCGGGCCCAAACCCCCCCCCG

Sequence 1067

CCGGGCAGGTACCAGCTTTTGCACCTTCTCACTGTAAAGATGTTGTATGGGTACTTAA



Table 2

CCAGTTGGGGTTTAATTTCTTGGCTGTATAGTGGACTTAGTGTCACATGCCTACCTCAG  
GATTTCTGNGACAATTAATATGATATTTAAGGCTTCTAACTTACTGGATCTAAATAAA  
TTATTCCTGGAAAAAAGTTTGTCTGTGTAATAAAGCACCTAAACAGGAATGAAAAAGC  
AGGTATAGAACTTCAGGTGTTTTGTACCCCTCCCTCCCCAGTGGTGTGTGTAGGAAAAC  
TTTGCTAATTTCTGNAAANCCNGATGNCTAATCTTTCTGACTTTACGTTCAATCAGGCT  
GATTATTTTCATTCANCAGATGTNNATCGGTTTTG

Sequence 1068

TGGCAACNCCCCGCGGNGGCGGCCGAGGANCNCGGGACGGGNCANTNAANNTNTAAGCAT  
ACAGGCCAGCCGGNGGGGACNACAANCNAACNTGGACTGGGGACTTNTACACCAA  
CAGAACTGGGGCAAAANNGNAGCCGCCGNTGATGGNTAATTCGGGGAAATNAGGCATCCN  
GCCCTGATGATGCCTGCTGGTAAATCCCCCNATCCAAAAACAAACCCGGGTNGTANACT  
ATCGAAAANCCTAAAAGGGNAGAAATAATGGGAAAGCCCTGNCTGGTGGAGCCACACCCA  
GGNGANNACCTCTAAANAAAAACNTGGCNGGAATGNCTGCNGGCGGTCTAAAAAATAAAC  
ACNCGTAACANGGCTTAANAACAANAAGANCCCGTANGAAGNACCCCNCTCCCGGNNAG  
NANNACNCAAAGAAAAAANACAAANGGGCCCCCTNGCCCCGGGGCCGCCCGCCTTCNAAA  
AAACCAAGGGGGGAACC

Sequence 1069

CGAGGTACCTGCCAGGAAAAATAGCAGCCCANCCACCAGGTGGCAACCTGCACTATTGAC  
CAGACACTTGGCCAGTTTGATGTTGGGCACCGAGGACCTGAANGCAGTGTTGCACATTCC  
AATCAGGCAGAGCAGCAGGGCACCCATGGCGATCAGCATGCTGAGGGGTAGGGCAAACCTG  
GAGGACACGCAGGTCCAGCTGGTCAACTGATGAGTACCTGCCCGGGCGGCCGCTNTAAGA  
ANTANATGGATNCCCCNNGGCTGNNNNGAATTCCGAATATCAAGCTTATNNANTACCGTCG  
GACCTTCCTAGGGTGGGGGCCNCGGGAACCCCACTTTTTGTTNCCCTTAAGGTNGAGG  
GGTTTAATNTGGCCCNCTTTGGCCGGCTAAATTCAATTGGTTCAATAGACCTTGTTTTT  
CCCTGGTTGTGGAAAAAATTTGTTTAATTCGCGNTTCANCAANTTTNCCNCCANCAA  
CAATTCNAAAGCCC

Sequence 1070

CCGGGCAGGTACGCGGGGTTGATGGGGACAGAATAATCACTCAACACCAGATGCAATGCA  
ACAAAGTAATTAATGCTCAGAACTCAGAGCTGGGTATGAATCAAGGATCCTTTACTTAGT  
AGTTAACTAGAAGACTGGGACTAGTTAATTTCTCCAGTGCTCAGCTTCTTATCTACAGGT  
ATCTGCTGAATCCTCCAAGGGGAACAGAATAAGGGGAAGATCCCTGGAGATCAGATTCTC  
AGATCCAGTATCCCGTGTGCTGACCTGCCATGACAAACACTGGCAGGGAGCCTGCCATAG  
AGGAAAAGAGTAAGAATTGGCTGAGTTCACAT

Sequence 1071

AGGTACTTTAGGAGACCCAGGCGGGCAGATTGCCTGAGGTCAGGAGTTTGAGACCAGCCT  
GGCTAACATGGTGAAACCCTGTCTCTACTAAAAATACAAAAATTAGCCGGGCATGGTGGC  
GCACGCCTGTAGTCCCAACTGCTTGGGAGGTTGAGGCAAGAGAATCGCTTGAACCCAGGA  
GGTGGGGGTTGCAGTGAGCCGAGATCGCGCCACTTGCACTCCAGCATGGGCGACAGGAGC  
AAGACTCCATCTCAAAATAAAGAAAGAAAGGAAACAAAGTAAAGAAAAGCTTAATATTG  
GAACCTTCTCTAAAAAAAAGAAAAAAAANGGAAAGCCTTGATGCCACCACCAAATCTT  
AAATTTGGCCAAAGTTTCGATTCAATTTAAAGGGAATATTTTATTTTGCCATCACCACAAA  
ATAAATTTCTTTTACCTCCCCCCCCAAAAAATTCAAATTAAGGTTTTTCAAAATT  
ANGCCAACTTTTTTCTTAAATTGNTGGTTTTAAAAAATG

Sequence 1072

AGGTACGCGGGCAGACTTTAATCATCAACATAAGCTTTATTAATACTGGTTCATCCTG  
AAGTTCGACTCAATGGCCATTTTCTCCTTTCTCTTAATCTGCACACTCGTGTCCACTGT  
GCGATGCAAGACCCTTCAGAACAGCCCCACCCCTCTTACTGTCTAATGTTTCCAGTGGCAC  
AGGGACAGATTCAATTTGGGAATCCCTGGGCCCAGTGTCCAGGAAGAAACCCACAGTTGA  
GCCTGGAGTGACTGTCTCTGATTCTCACACTTACCGTTTCTGGGGCTCCTCATCTTCA

Table 2

ACACGGTGACCAGCGTGAAGAAACAGAGCCTGCCCCCTACAGACTATCATTTAGAGGGAG  
TTTATTTCTAGTGCTTCAGACCCGCCAGTACCTGCCCG

Sequence 1073

CCACCGCGGTGGCGGCCGNGGTACGCGGGAGGATAATGATGTTGGGAAGNGATTTCTNTGT  
ANCTATGCTGAGCAGACAGNCTTCAAGAGTTAGCAAAGTTTATATGTGCGGGTGACAAAA  
AAGAGGCTTATGAGTTTTGATGACTGAAAGGAGACAAATAATAGCTAATCTTTGATAAAG  
ACTAACTATGGGCAAGGCTTTACTCTTTGTTTGTAGTAACCTACTTAATCCTCATTAGNA  
ACCCCTTTATATANGATGCTGTATTTCTCCAT

Sequence 1074

CCGGGCAGGTACCTGTGAACCCAACCTACAGGCTGGCCCCCTGTAGACACAGAGAACAGGT  
CCATCCCAGCACCTGGATGACCTTGCAGATCAAAAGCCTTCCTTAGCACCATGTCAGCC  
CCTATGGAAATAGGCTTCAGGCCAGCCCCCTGTGGATACAGGCTGCAGGCTCATACTIGCA  
AACCCAGGCTTCAGGCCACCCCTGCAACCTAAAAACAGGTCTACCCAGTGGGCACC  
TGCAAAAGGCCAGCTTGCATGAGGACTCTAGCTGCAAGCACGCTCATGGACCACATTAGC  
CAGCCTACTCAAATCTCTGTGAAGGGCTTTCCCAACAAGCCA

Sequence 1075

AGGTACCTGCTCCTGGGCCATCCTGTGCTAAGGTTGCATTGCTGAACGGATGACAGGGTG  
GGTGGTGTATGTCCCTAAGGCCACCAGAGATGGTTTACTCAATTCACATGCTTCCTCCAC  
CTGGGATGAAAGCGGTTAATTAATGTTTGATTCTAAGAAGTCAGGTGATGTGATTGAGAT  
TAGTTATGGGGTTGTGCTGAAGCGCGGGTGGACCCTAGGAGGTGATTTTAACGGAAGTCT  
CAAAATAGCAGCCTTGGAACTAGTTGGACTAGTTATTTTTAAAAATAATGAGAAATGTTA  
TAAAGTCGGCTGAAGGTATTGATTTACCTTTAGGTTGTTGAGAAACAGAACTTTGAGAA  
ATAGCCTGCTACACAGTTGTAAGGGGGATAATAAGAGATCCCCCTTCTCTAAAAAACGT  
TTACAACCCAATC

Sequence 1076

TCCACCGCGGTGGCGGCCGCCGGGCAGGTACATTTAATCCTCACAGCAACCCTACGGGA  
TAATATCGATGTGCACCATTTCTATAGAAATGGGCTCTATCTTTAAAGAATTGAGACAG  
CTTGTTAATCTACCTCCCCCTCCCCTTGCTAAAAAGGGTGTGAAAAGTTGCGGTCATTGA  
GATCAGAGAAAGAGTGCACTGGGGGGGTCAACCAATGACGTTTTTGTCAAAGTGAAGC  
TTTGCTTAGTTCTAGTCAAGAGCTCTGCTTAGTGATCTATCTGCCCAGGGCTTAGGGAA  
GTCCCTGAGCTTATTTGTTTCTCAGCCCGAACTGCCTCAACTCCAGTGGGGAAGTGTGGC  
AAGCTCCAGAGCAGTTGACTTAAGTGTGTTGTAAGTGGCTCAGCCCCAAAAACAGTCCCAA  
GCCATTTCTTTCAAGGAGGTTTCAAGGGAAAGGGAGCACTGCTGGGTCTCTCTTTGTG  
AAAAGATCTTTATTTTNTGAAAGGGCATTTCACCTGTAATGCCCACTGGTCCCTTTGTTT  
CCACTNGNCAAAGCTTGGGTGCCAGTGGGTTTNCNCCCTGTTNATTTCCCAAGGACTTTTT  
GGGGGAAGGCCTGGAGAATTCGGGAANAATCACNTTTGAACCNCCAGAAATTTGGGAAA  
ATCAAGCCCTTGGGCNNCNCATAAATGGAGACCCTNTTTTTTTTACTTAAAAATTTAAA  
AAACCCCAAAANTTCCTTGGTTTTTTNGNGGTGATGCCTTGNTTTNGGNCCCCAAAANTT  
TTTTGGGNGGCTTNTGGGGGGGNGNNAACCCCTCCCCNAAGNNGATTACGGGTNNNA  
ATGGGGCTTTTGNNTTGGTTTTTTTNNACAAAAAANNNGNACCCTTTTTTNAANAA  
ANAAAAA

Sequence 1077

GGCGGCCGAGGTACCAGGGCACTCCAAATATGTAATTTAACACATTCATTAATAACTATG  
ATAAATAGATATTTTATCCAAGAACAATATCATTAGAGAGTTAGATTGGAGGGCAAGGG  
GATTAAGTATCTTAAGTTTATTGNTTCCCGAGTGACATTTTAAAGCCTNCTTCCAGGA  
ACTGTGGAATGCCTGCCAGGCTCCCTGACTGCTGTCTGGTGAGGGTCCCTACTGGTGCTG  
TGGACAGCACAATACACAATGGGGCACAAGAAAGCCACGCAGCCTCCCCCTCCTAGACAC  
ATGCTGTGCACCCCTTGGCTCTGCTTGAAGGTTGAGCTCTGCAATGGAAGGTTGCAA  
ACATCAGACACCCTTCTTTCTGTTCTGTCTCTCCCCTTCTTCTCCCCACAGTGTC

Table 2

CANCCCTGGCCCTGACTTTTTCTGGGGTTGGGGGAGGCCCTGTNATGGTTCANNA  
NNTNAAGCATNTTNGTGAANACCTTCCCTTTAGCTTCAAATGGTNGCTTNTTGGCCAT  
AAGGGGANAGACAAAGCAAANNCTTGAAGTTTTGGNGTNAAGCCCTANAACNCAATG  
GGAAAAAANGAAA

Sequence 1078

GCCGNCCGGGAGGTACGCGGGGAGACTTTCCTGCGGCACATGGACCTGGCCCAACCC  
TCACAGCCAGTATACNAGCTGGAGCTCTCGGTGCTCGAGCGGCAGCCAGAAGAGAACAG  
CCTNTCAATGGTGCCTGACAAGGNCTTCCCTTATNTGGACGAGGAGTCCCCCGGCCGC  
TCTAGAACTAG

Sequence 1079

GTGGCGGCCGAGGTACGCATCTTTGAAGAAAGTAGCTGTGGATATGGGTGGAAGCATAAA  
GGATCCTAGTAAGTAAACATCAGTAACACATTCATGATTTTATCTTCATTAGCAATA  
GGACTCAAGCAATTGAAAAACATTGACTTTGAAAAACACATGTGCGTGGGCCAGGCAC  
AGTGGCTCACGCCTGTAATCCAGCACTTTGGGAGGCTGAGGCGGCAGATTACTTGAGG  
TCAAGAGTTTGAGACCAGCCTGCTCAACATGGTGAAACCCAGTCTCTACTAAAAATACAA  
AAATTAGCTGAGTGTGATGGCACATGCCTGTAATCCAGCTACTGGGGAGGCTGAGGCAG  
GAGAATCTCTTAAACCGGGAGGCAGGAGGTTTGAAGTGAGACAACATCACTGCATTGCT  
CTCCAGCCTGGGCAACGAAGTGGATCTCCGTCTCAAAACAAACAAACAAACAAACCA  
AAAACAAACAAAGCACATCTGCTTGTCTTGTGTAGAGAGATTCCCTTTTTGAATTC  
TTTTGTGGCNCTAGNTTTAAAAAATAAG

Sequence 1080

GCGGTGGCGGCTCGATGTACTTTATGAGACCCATGCGNNCNGTATTGCCTGAGGTCAGGA  
GTTTGAGACCAGCCTGGCTAACATGGTGAAACCCTGTCTCTACTAAAAATACAAAAATTA  
GCCGGGCATGGTGGCTCACGCCTGTAGTCCCACTGCTTGGGAGGTTGAGGCAAGAGAAT  
CGCTTGAACCCANGAGGTGGAGGTTGCAGTGAGCCGAGATCGCGCCACTGCACTCCAACA  
TGGGCGACAAGAGCAAGGACTCCATCTNAAAAATAAGAAAGAAAGGAAACAAAGNAAAA  
GAAAANGCTTTATATTTGGAACCTCTCNAAAAAAGAAAAAAGGAAAAAGCCCTGA  
TGCACACCAAAATNTAAATTTGGCCAAAGTCGATTCAAATNTAAAGGGATTATTTAT  
TTNCCATTCAAAAAATAATTTCTTTTACCTTCCCCCCTAAAAATCAAATTAATAAA  
AAGGTTTTCAAAAAATACGCAACCTTTTTCTNCTAAATGGGGGNTTAAAAAATGGT  
TAAATTCACCCAAAAATANCATTGGTGGTCCCCCAACCTTTCTTTTCCCAANTTTTA  
TAAATTNCCCTTAATTGGTGGTTACAAAGTTGGAAGGTTNATTACCCCTTNAAGGTTGN  
AAGGGCNAATATTTAAGGAAGAAGTTTGAANCCCTTTCAAAACCCCTTGNCTTGGGAG  
GAANAAGCCNTTGTCTTTTCTTTAANAAAGNTTCTNNAANGGAAAAATNGGGT

Sequence 1081

GCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTAAAGATGGAG  
TCTTGCTCTATCACCCAGGCTAGAGTGCAATCTCGGCTCACTGCAGTCTCCA  
TCTCCTGGGTTCAAGGGATTCTTCTACCTCAGCCTCCTGAGTAGCTAGGATTACAGGCAC  
ATGCCACCGTGCCTGGCTAACTTTTTGATTTTATAGTAGAGACGGGGTTCCACCATGCTA  
GCCAGGCTGGTCTTGAACCTCCTGACCTCAGGTGATCCGCCTGCCTTGGCCTCCAAAAATG  
CTGGAATTACAGGCATGTAATCCAACCTTAGACACTCAGTTTAAACCCCTNTTATCCTA  
TCTTCACTGGAAGAGCAAAGCAATCTCCTACCTTGGTTTTGTCAATAAGAAGGGAATATT  
ATTAAGCCCCAGTAATCCTGTTGATTACCATAGGTGGGGCATGTTTNTNTAGAAGTAAAG  
TTNGAAATCTTTTGGGGTTTCCGAATGG

Sequence 1082

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGCCGGGCAGGTACGTTAGCATAATTTTGA  
ATTATTTAGCTAAGTAGATGTTAAAGACTTGACTCAAGAGTGGCTGAAAAAGAAAGGAT  
TCTCTATTTCCCTGATTCTCTACTATATTGACTATATAGTTTCTTTTGTAAAGATGC  
GTTCAATCTGACTATTCTTACCAGCATTATTCTTACTAGCATTGTGACCCAGAATTTT

Table 2

CAGAGCAAACAAGCAAGCAAAAAAGCAAAATTAATTTAAATTTTCAATTTATAATTACTTAAT  
TTTCATTCAATTGAAAAGTCATCATTCTAAAATGAGATTTCTATTTTAATTATAATTACAG  
ATGCTCCTTGACTTACGATGGGGTTACATTTCTTGTTTTTTGTTTTTTGTTTTTTGT  
TTTTTGTTTTTGAGACAGGGTCTTGCTCTGTTGTCCAGGCTGGAGTGTAGTGGCACAAT  
CATGGCTCACTGCAGCCTTGACCTCTCAGGCTCAAGTGATCCGTGCCCTCAGCCTCCTG  
AGTAGATGGGACCACAGGTGCATGTCACCATGCCTGGCTAATTTT

Sequence 1083

CCGGGCAGGTACTTTTCACTCTCCTACATGTCTCAGTTTGAACAATAAATTATACAGTCA  
CCAGTCCCAGGAAAAGATGAAATATGAAAAAGATGCCAGCAGATTTAGCAATTGCTATTT  
ACACATCCCTGGCATTGTCTAACTCTGCTCTGTATAGCCAGGTCTCTAACCATCATCTGG  
ACTGGAACCATATCTTCTACCAAAAGCATGAGGAAGGCTGGGCATGGTGGCTCACACCAG  
TAATCCCAGCACTTTGGGAGGCCAAGGCAGCAGGACTGCTTGAAGTCAGGAGTTTGAGAC  
CAGCCTGGGCAACGTAGAAAAGACCACATCTCTACAGAAAATTTTTAAAAATTAGCCACA  
CATGGTAGTGTGTGCCTGTAGTCCCAGCTAGTCAGGAGGCTGAGGTGGGAGGATCGCTTG  
AGCAGAGGAGGTTGAGGCTACGGTGAACCATGATTGTGCCACTGCACTCCAGCCTGGATG  
ACAGAGTAAACCTG

Sequence 1084

TGGGCTTGTGTGCACNGAAACCCCCCGTNTCAAGCCCCGACCGCTGCNGCCCTTAAATCC  
CGGTAACATTTCTGTTTGGAGTTCCAAACCCNGTAAGGACACCGACTTTATTCGCCCACT  
TGGCAAGCCAAGNTCACNTGGGTAAACAAGGGAATNTAGNCAGGAGCCGAGGTATTGGT  
AAGGGCGGGTGCCTACAGGAANTTCTTTGGAAGTGGGTGGGCCCTAACTTACCGGGCTA  
CCACTTAGAAGNAACAAGTTNTTTTGGTATCTTGCGCCTCTGGCTTGAAAGCCAAGTTAN  
CCTTTNGNGAAAAAAAG

Sequence 1085

AGTTCGGTGTAGGGTTCGTTCTGCTCCCAAAGCTTGGGCCTGTGTTGCACNAAACCCCCCG  
TTCAGCCCCGACCCGCTGCGCCTTTATCCCGTTAANCTATTCTGTTGGAGTCCCAACC  
CCGGTAAGACACGACTTATTGCGCCACCTGGCCAGCAAGCCCACTTGGGTAAACAGGGATT  
TAGCAAGTAGCCGAGGTATGTTANGGCGGTGCTTACANAAGTTTCTTTGAAAGGTGGGT  
GGGCCTTAACCTAACGGGCTTANCACTTANGAAAGAAACAAGTTATTTTNGGTAATTCTNG  
CCGCTTTTGTGTTGAAANNCCCAATTTACCCTTTCNNGGNAAAAAAGAAAGTTTGGGG  
AAAGNCTTTCTTTTGAATTCCCNNGGCAAAAAACAAAAACCCACCCGNTTGNNTAGNCC  
GGTGGGGTTTTTTTTTTTGTTTTTTGCNAAAGGCCNNGCNAANANTTTACCNCCCCANG  
AAAAAA

Sequence 1086

AGGTACATTTTTTTTTTTTTTTTTTTTATTTTTATTTTTAGTAGAGACGGGGTTTCACC  
GTGTTAGCCAGGATGGTCTCGATCTCCTGGCCTCATGATCCGCCCCGCTCGGCCTCCCAA  
AGTCCTGGGATTACAGGCATGAGTCACCAAGCCCGGCCAGCAGCAATAATGTTTTACCAA  
TATGAGCATCAAGCAACCGTGGTTCCCTAGAGCACCTTCCAATTGTGAGCTCTCAGTTTA  
TGTGTGTTTTTACTCACCATCTGTAACATCACACCTTCAAAACAGACCCTTGGCCCATAG  
ATAGAAGATAAAAGAAGCTATAATCTCTCTTTTCCCAAAAACAAATTTCTTAGGAAAT  
TTGATTTATTTTGAAGAACCTAATATTCTTGTAAAAATACAACCTTCCAAATTCTGT  
GGTCAACAGTGAGATCCTATGGACACCTTTGATGATAAAAAATAAAATATTCTTTAACTN  
AAGGGACACAGAACCTAGGCACGGNTTCCCCAGGCACTCAGTCCAGGTGCTTCTCAGATG  
AACCTGTGTATGCTCAACTTCATTTCCAGTAAGGGACACAGCCCCANTNTGAGANGAGAC  
TGGGAAAAAGAAAGCCCCC

Sequence 1087

AGGTACCTCCGATGGTCCCTTGGTAACTGCTAGAGAGAACCTAGGAAAAAGAGGTGTATA  
AAATTCATCCTTTTTCAGTGGTGGTGAGAGGTGCCAGGTGCTATTCTGCAGAGAAGTGT  
AACCAAAAACCTGTAAAAAGAGCCAAGTAGGCCACAAGTGGTGGCTCATGCCTGTAACC

Table 2

CCAACACTTTGGGATGCCAAGGCAGGAATACCACTTAAGACCAGGAGTTTGAGACCAGCC  
CGGGCAACACAGGGAGATCCCATCTCTAAAAAATAAAATAAAAAATTAGCAGGGTGTGG  
TGGCACACGTCTCTGCTGGCACTCCAGAGGCCGAGGTGGGAGGATTGCTTGACCCTGGGAA  
GTCAAGGCTGCAGTGAGCCATGACAGTGCCACTGTCATCCAGCCTGGGCAACAGAGCAAG  
ACCGTGCTTTGAAAAAAGGCAAAATTGTCTAGGGATGAACCGTGGAAGCTGAAGCCAC  
TCTGTAGAAAACCATACATGTCCCTGGCCGGGTGCAGTGGCTCACGCCTGTAATCCCAGC  
ACTTTGGGAGGCCGAGGGCGGGCGGATCACGAGGTCAGGGAGATTGAGACCATTCTTG  
GCTTACACAGTGGAACTCCCGTCTTTCTTAAAAATTAATGAAAAA

Sequence 1088

TCCACCGCGGTGGCGGCCGAGGTAAGTGGGCTCTCTCTCTCAGTTCACACNTGGGCGCA  
GTCTGANCTCTCATATCGTCTTTCTGACATTTAATGTTTTTAAAAAGGATGACAAGGACA  
GTTCCCTTGGAAGTCATTTCAATCACGACCTGCTGTGTATCTGTGGAGTTGACATGTTCT  
TGCATAGTTGAGTGCTCCCTGCTCTGGGAAGCCTGCACGGGGTCCCTGCACACATCCCA  
GCATGGAGGGTCTCAGGGCTGGGTTTGAGACGAAGGTGGGCGAAAGGTTACATGAACTG  
AGGTCATGACAGAGTGATCAGGTGGGACCAGGCAGAACTCTCGGCCCCAGGGCTTGCTG  
GTACCTGCCCCGGGC

Sequence 1089

NCCGGGCAGGTTCCCCACTGGGAGACGTCCTCAGCANGCAGCCNGAGAAGAGGCACAGNN  
CNGAACTTCTGCTCTAGGGGTAGGAATGTGGTGGGACCCATCTCTCTCCTTGGAAGAAT  
GTGGGACTCTCGCCTGCTCACTAAAACCAACACCTGCCGATGTGCTAAGAGTCCTCTTGA  
AGTCCCAACAATAGACATCAAAGCTGATGTTTGAAGTTCAGATAACAAGGGAAAGGGTA  
GTTTAAAAAATAAAAAAACGGTTACCTCGGCCCCGCTCTAAGAACTAGTGGGA  
TCCCCCGGGCCTGCCAGGGAATCCGAANATTCANAGCTNATTGATACCCGGACGACC  
CTCNAAGGGGGGGGGCNC CGNAACCCANCTTTTGGTTCCCTTTAANTGGAGGGTTTA  
AATTTGGCGCCGCTTNGGCCGATAAANCANNGGGCCATAAGCCNTGGNTTTCCTTGN  
NTNGAAATTTGGTNAATCCCGNCTTCAACCAATNTCCNCCANCAACAATACCGAATCC  
CGGGGTAGGCCAATAAAAAAGGNTGGTCNAAAGGCCCTGGGGGGGNNGCCCTTAAATGG  
AANTNGAAGCCTAAAACTTCAACAATTTNAATTTTGCCNGGTGTGGCGGCCTCAANT  
TGGCNC CGCTTTTTTCCAGNTCCGGGGGGAA

Sequence 1090

CCGCGGTGGCGGCCGCCGGGCAGGTAAGTCCCAAAACACCTTTTCCTGTTATTTTATGTA  
TTTATTCTTATTCTCTTTTCCGATGGCTTTTAAAGACAGTTTAACCAGCCAGGCACAGT  
GGCTCACGCCTGTAATCCCAACACTTTGGGAGGCTGAGGTGGGTGGATCACCTGATGTCA  
GGAGTTTGAGACCAGCCTGACCAACATGGTGAAACCTGCCTCTACTAAAAATACAAAA  
TTAGCTGGGTGTGGTGGCGTGACCTGTAATCCCAGCTACCTGGGAGTCTGAGGCAGGAG  
AATCACTTGAACCCAGGAGGCGGAGGTTGCAGTGAGCCATTGTACTCCAGCCTGGGCAGC  
AAGAGTGCAACTCTGTCTCAAATAAATAAATAAATAAAGACAATTTAACCAACATG  
ACTTACTAAACATTGTGTTTTCTTCTTCTTTCTTAGGTTGATGCTATGAACTGGGA  
GTAAAGGAAA

Sequence 1091

GCTCCCCGCGGTGGCTGCCGAGGTACATTTTATCCANTNCTCACTCCAAGGAAGGAAGT  
TAATTAAGTNTCATCTAGCAGACATTCTCCCCAGCTGTGTCTAGTCACGAGGAGAAT  
GACGATTGTGTGCATCTGGGCAAAACATTAAAGAGGAAAGTTCTGCAAAAATTAGGTATG  
GTTTGAAATAAGAAATAAACATAGTCTACATATTTTGCAAAAACAACATTAAAGAAGCC  
CCAGGCCAGCCCTGTGCTTGGGGGCCCTCCAGGTGGAGGCAGCAATAGTTCAAAGAGG  
AGCTGTTGGAGTATCAAGTCTAGCTCCTAAATGAGACTGTAAGATCCTTGAGCACAAGG  
GCCACATTTTCTCCATCTCTGGGATGTGTTCCCCACCCAGACCTCCAGGTGAACGTGCT  
TACCCAGACCTCCAGATGAACGTGCTTACAGGTACCTGCCCCGGGCGGC

Sequence 1092

Table 2

CCGGGCAGGTGCTTTTAGTAGAGACGGGGTTTCTCTATGTTGGTCAGGCTGGTCTTGAGG  
TCGGGAGCTCAGGTGATCTACCTGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGCGTGA  
GCACTGCGCCCGGCTTTAACAGATATTTTATAAGCAAATCATTATAAGTATGGGTGAC  
TATCTTTACAAATCCATTTGTGATGCAGTGGTAATTTGGTGGCACTGCAATTATGGCCA  
GCAATGAAGATTATAAAATAATTGCCTGAGGAACCAAGCTCATGTGCACTAAAAAGAAGC  
AGGGATTCTTAGAAGATTCTTAGAAGTATAGAGTAGTGATTTTTTTGGGGATGGAGTCTT  
GCTCTGTGCGCCAGGTTAGAGTGCAGTGGTGCGATATCCGCTCACTACAACCTCCGTCTC  
CCCCTCTCAGGTTCAAGCGATTCTCCTGCCTCAGTCTCCCAAGTATCTGGGACTACAGCT  
GCACACCACCACACCCAGCTATTTTTTGTA

Sequence 1093

CGTTTCAAGCCCGAACCCGCTGCCGCCCTTATCCCGGTNAACTATCGGNCTTTGAAGTCC  
AACCCCGGGTAAAGACACCGACTTTATCGCCACTGGGCAAGCAGCNCCTGGTAAACAGG  
GATTAGCCANGAGCGGAGGTATGTTAAGGCCGGGTGCTTACAAGAAGTTTCTTGAAAGGT  
GGGTNGGCCTTAACTTACGGGCTTACACCTAAGNAAGAAAAACAAGTANTTTTNGGTTATT  
CTTGCGCTCTTGCTTGAAAAGCCCANGNTTACCCTTTTCGNGNAAAAAAGAAGATNTGG  
GTTAGGCCNTCTTTTGAATNCCCAGGGCGAAAACNAAAAACCNAACCCGNTTNGGGTTA  
GCCGGGGGGGGGGTTT

Sequence 1094

GAATTGGAGCTCCACCCGCGGTGGCGGCCGAGGTACTTACTAATGGGCAAAAAATGAGGT  
TTAATTACATTTGCTGATTATATTAATGGAAGTGGTGAGAAATGACAGAAGGTATT  
GTGCTGGGTTTTAGCAAAATGAAATCTAGGTGTGGGAGACAGGTAATTTAACTAATA  
TTGATTGGGATTCTGTCTCAGTGAGTTGATATTCAGGAGCTTGTTTTATGTAGTTTGTC  
TAAAGGAGTCATTTTTCTTGCTGAGAAAAGCAACAATGATAAAAAAGTAGGCAGATTG  
GAGGCTGTTTATAATTCTATTTTTGTGAATTCATAAACTTATTTAATGTAGAAGTTG  
CTTGACAGACTTTAGGTGGTCAAAAAGGGTCAAAATGGAAGTAAAAATATAATTTGGTCA  
TTTATTTATTCTACGCATATTTATCTTGCTAATCTGTGCCAAGCACTGTTCTAACAGTT  
TAGAATATTGGTGAACAAAACAGACTAATTCCTGACACTCCATGAACTTAAATCTAGC  
AAAATTATTTCTCTTGGGTTTTT

Sequence 1095

TTACTACTGGGCANAAAAATGAGGNNNCATTACATNTGCTGATTATATTAATGGAAG  
TGGTGANAAANGACNNANGGTATNGNNCTGGGNTTATAGCAAAATGAAATCTANGTGTG  
GGAGACAGGTAATNAACTAATATTGATTGGGATNCTGTCTNAGCGAGTNGATNTTCAN  
GAGCTTGTTTTATGNANTTNGNTCTAAAGGAGTCATTTTTCTTGCTGAGAAAAGCAACA  
ATGATAAAAAAGTNGGCCCATTTGGAGGCTGATTATAATTCTATTTTTGTGAATNCATA  
AACTTATTNNAATGTNNAAGTNNCTTGACAGACTTTAGGTGGTCAAAAAGGGTCAAAAT  
GGAAGTAAAAATATAATNNTGGTCATTTATTTATTCTACNCATATTTATCTTGCTAATC  
TGTGCCAAGCACTGTTCTAACACTTTTAGAATATTGGTGAACAAAACANACTAATTCCTG  
ACACTCCATGAACTTA

Sequence 1096

CCGGGCAGGTACGCGGGCTTCTCCTCATATCTACATGACTCCATCCTCCATTTCTCTTG  
TCTCTCTCAAAACATACCTTACACATGAGACCTCCCTGACCACTCTATATACTCTATATA  
AAATAACCTCACCCCCACCCTGAGACGTTCTTCTCCATACTACTCATTCTACTTTACT  
TTTTTCTCAATAATATTACCACACTCTGACATACTACATTTACTCGCTTATTATTG  
TCTCTCACACCTGTAATCCTAGCACTTTGGGAGGCCGAGGCAGGCGGATCACGAGGTCAG  
GAGATTGAGACCATCCTGGCCAACGTGGTGAAACCCTGTGTCTACTAAGGGTTCAAAAAT  
TAGCTGGGCGTGGTGGCGCATGCCTGTGGTCCCAGCTCCTCAGGAGGCTGAGGCAGAAGG  
GTCCCTTGAACCCAGGAGGCAGAGGTTGCAATGAGCCGAAAT

Sequence 1097

CCGCGGTGGCGGCCGCCCGGGCAGGTACCAAATGTGATTTTATTACCCAAGTGGAAGAAG

Table 2

AGATTTCCCGACACTACAGGAGAGCACACAGCTGCTACAAATGCCGTCAGTGCAGTTTTA  
CAGCTGCCGATACTCAGTCACTACTGGAGCACTTCAACACTGTTCACTGCCAGGAACAGG  
ACATCACTACAGCCAACGGCGAAGAGGACGGTCATGCCATATCCACCATCAAAGAGGAGC  
CCAAAATTGACTTCAGGGTCTACAATCTGCTAACTCCAGACTCTAAAATGGGAGAGCCAG  
TTTCTGAGAGTGTGGTGAAGAGAGAGAAGCTGGAAGAGAAGGACGGGCTCAAAGAGAAAG  
TTTGGACCGAGAGTTCCAGTGATGACCTTCGCAATGTGACTTGGAGAGGGGCAGACATCC  
TGCGGGGGAGTCCGTCATACACCCAAGCAAG

Sequence 1098

AGGTACAATAGGGAGTACCCAGGTTCCCTACGATGCCCCCAATCAGACCCAGGGGCTG  
CCTTCCAAACAGTGACAGGCACCTAAAGAAGGGACAGGGCANACGCTGCTTCAAGCCAGT  
CAAAGCCAAGACAGGCAGGCTGTGTGGCACGGTTGTGCTCCCCTGAATCTCTTCTGCCT  
CGGGCAACTCTTGTGGATCACTTNCCTGCTGCTTTCCATTCCCTTCTTGGCTGGT  
TTTCTTCTCCTACCAAATTTTACCTGCAATTACCAGGAGTTACCTGGGTCTCCT  
GGACCTTTTCTCAATGCAATCTCCTCCTTNCAGCACCCCCAAGAAGCGTCGCTCCTGTGT  
TCAAGACCAACCAGGGATGTGTCCAAGACCAAGAGGATGGTTGTTACCTATGANGCTCA  
TGTAGG

Sequence 1099

ANGTACAGGCCCAGTTGGGTCCTACTTAAAGTTTTCTGTTTGACAATTTATCAGGAATT  
ATTATTGCTTAAGATAGCTTTGAAGTAAATTGTCTGCGTCAAAGACCTTCTCCACTTCT  
CTCACTTACCTAGCTCTTGGCAACTGTTTCCAAAATGTTTGCACTAACTCCATAGATTCA  
TGCTGGAAGGATTAGATACTCCAGGAACATCTATTGGGAGAAAGTTTAACTACAACCTGTT  
GTCCATTTTTCAATTAATGTGCCAGTCACTAATCAAAAAACAGATGCTGTGCTTTTCT  
CATCCACTACTTGGGACACCTAAGGATAGATGGACAGATACTTAANAGGCTGCCTCCTTC  
TTCTGAGANNGGGCTTTTCATCAGGGCTGTGCCACAGGGTGTGATGCTGTGTGATAGCAN  
ATGGCTCTGCTTCATGCCATTACTTTTTGTTTTATC

Sequence 1100

CCGGGCAGGTAATAAGCATGTTAAGCTTTCTCCATGATGGAATTTATAACTCAAGAGA  
AATAAAATCAGATTATGAATCTAAATCTAAGGAATGAGAAAAGAATGTGGGATAGAAG  
AGACATTGCGGTCAAGAGGTGGTGTGTGAAGTTTGAAAGTTCTGTTGCCAAACATATGCA  
ACTCTCATTCAAGAGAAAAACAATCTGCAAGACTTTGAAGAATGAGAGAAACATGATTC  
TTAGGAGCAGGCTTTCAGATTCTCGATGATGGATCATGTAGACGGCAGATATTATCCAGC  
AAAATCAGGATAATTCCTGAGTCGGAGGCTGCATTCCAGCCTCTATGTCCCAGGCTGGAG  
CAGTGGCAGGATCTCAGCTCATTGCAACCTCTGCCTCCCGGGCTCAAGCAA

Sequence 1101

CCGCGGTGGCGGCCGCCCGGGCAGGTAAGTGGGCGGTCTGAAGGACACTAGAAATAAAT  
CCCTCTAAATGATAGTCTGTAGGGGGCAGGCTCTGTTTCTTACGCTGGTCACCGTGTTG  
AAGATGAGGAGCCCCAGGAAACGGTAAGTGTGAGAATCAGAGGACAGTCACTCCAGGCTC  
AACTGTGGGTTTCTTCTGGGACACTGGGCCAGGGATTCCCAAATGAATCTGTCCCTGT  
GCCACTGGAAACATTAGACAGTAAGAGGGGTGGGCTGTTCTGAAGGGTCTTGCATCGCAC  
AGTGGACACGAGTGTGCAGAAATTAAGAGAAAGGAGAAAATGGCCATTGAGTCGAACCTCA  
GGATGAACCAAGTATTTAATAAAGCTTATGTTGATGATTAAGTCTGCCCCGCTACCT

Sequence 1102

AGGTACTGCCATTTCTTTCTTTTTTAAAGAAGATATGTTTACAAAATAGGTGACCAACT  
AAGGTAGGTGTGTGTGAAGAGAGGCACTGAGAGAGAGGGGATCCTGAAATTTCTTTTCAAT  
AAAGGAAAAAGATAATTTTAGGGATGTTTTTAAAAATATAACTTGATGAATTTTTTAT  
AGCATGAGTATTATTTAGGTGCTGTCCTAGACCACTGTGGCGTATAGGCTATAGAAGATT  
GGTCTGAATGCTAACGGCAGGGATGAGTGTAAGATCATCAAACTTATTTGTGGGAAGG  
AGAGCTACTGACAGAGCCATGTATTACATGACTCCAGTCTGGGCTGATAGGCCTGCCCTA  
AAGCATAGCTAGAGGGCAGGCACGGTGGCTCATGCCTGTAATCTCAGCACTTTGGGAGGC

Table 2

TGAGGCGGGCAGGTCACCTGAAGCCAGGAGTTTGAGAC

Sequence 1103

AGGTACCAAGCAGATTCTTTATGTTCCCTTAGTGATAAGTAATAGGGATAAAAAATTATTC  
TTTCTTCTTCCACTGAGCCAGTGTAAAGAGTTCCTTTTTTTTCCAAAACAAATAAGATAG  
TAAAGCCATAAAGACAGCACTTGTATGCTTTTTGTATTCTAAGAATATGAGAAAAATGAT  
TTCAGTGAACCTTTATCTGAAAGGATATAACCATGTCCTGATGGAATACTGCGATGGGCA  
GGTAGAAGGGAATGAGATGGGCCAGGCCAGTGGCTTACGCCCTGTAATCCCAGCACTTTA  
GGAGGCCGAGGCTGGCAGATCAGAAGGCCAGGAGTTCAAGACCAGCCTGGCCCCGCATGGT  
GAAACCCCGTCTCTACTAAAAAAAATACAAAAAATTAGCTGGGCACGGGGGCATGCGCCT  
GTAATCCCAGCTACT

Sequence 1104

CCGGGCAGGTACGCGGGGAGACTTTCCTGCGCGGCACATGGACCTGGCCCAACCCTCACA  
GCCAGTAGACGAGCTGGAGCTCTCGGTGCTCGAGCGGCAGCCAGAAGAGAACACGCCTCT  
CAATGGTGCCGACAAGGTCTTCCCTCTTTGGACGAGGAGGTCCCCC

Sequence 1105

CCGCGGTGGCGGGCGCCCGGGCAGGTCCGGACAGGTACAAATGTGTAAACAGAAAGCCAT  
GGAACACCGACTGTAATGAAGCTAGTAAAAAGCCTGAAAGGGAAGATTACAAACAACGGT  
ATGCATACTGTATATAATGCAGTTCAGATATTTTAGGCTTGAAATGGATTTATTCCTTC  
CTATTTATGTATTTTATAATAGGTAATAGTATAGAATGCAAAAGGCTTTTATTTAA  
TGAAAATCAGCTTTTCCCTACCTTTGCCTCCAACCTGCTCAGCTCCTCTATAGAAGTGTTC  
AGTTTTTCTCTGCCTTTTCAAAGATGATATATTTCCAAACATACACTTACTATACAGAC  
AATAACTTTTAAACAAAAGCACCATTATTATACACATTGGTTAGCATCTTCCTTCTCCC  
CTTAATATTGTATTGAAACATTATTCTCAACATTTTGTAAATTTGCATTTTA

Sequence 1106

GGGGCCATTGAGACTGCCATGGAAGACTTGAAAGGTCACGTAGCTGAGACTTCTGGAGAG  
ACCATTCAGGCTTCTGGCTCTTGGCAAAGATAGACCACTGGAACAATGAGAAGGAGAGA  
ATTCTACTGGTCACAGACAAGACTCTCTTGATCTGCAAATA

Sequence 1107

AGGTACAAGGAGACATTTCCCATCGCTATTAGGAAATGGGCATAGATAAGAATTTTCAAG  
TGTTTCCAAGATCCCCAACTCAAACCATCTACCACTGCTTATCCATCGACATCAGTGG  
CTTTTACATCAGACAAAGGTGGAGTAAATCAAACATACCACCCATGGCTTCTTGAGTAGC  
ATGAGGAATGAAATAAGAATTTTTTTTTTTTGGAGACGGGGTCTCGCTCTGTTGCCCAGG  
CCAGAGTGCAGTGGCACAATCTCTGGTCACTGCAACCTCTGCCTCCCCGGCTCAAGCAAT  
TCTCATGCCTCAGCCTCCCAGGNGGTGGGAATTACTGGTGCCTGCCACCAGCCAGGTTA  
ACTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTATTTTTAGTAANAGATGGGGTTTCAG  
GATGTTGGCCAGGCTGGTCTCAAACCTC

Sequence 1108

CCGGGCAGGTACGCGGGGAGACTTTCCTGCGCGGTACATGGACCTGGCCCAACCCTCACA  
GCCAGTAGACGAGCTGGAGCTCTCGGTGCTCGAGCGGCAGCCAGAAGAGAACACGCCTCT  
CAATGGTGCCGACAAGGTCTTCCCTCTTTGGACGAGGAGGTCCCCC

Sequence 1109

GAATTGGAGCTCCCCGCGGTGGCGGGCCGAGGTACCTAATCCAGGAACCTTGGTCTTCCACC  
TGCAACCATCTCTAATCTGTGAAGCTGGAAGGTGATGTTTTGTAAGCCCAGCATCCCTCCC  
CTCCTTCTTGGGTAAAAATCTCCATCCCTCTGGCTACAGAGGTGGGCACAGAGCCCAGA  
ATGAGCCAATCAGTAACCTCATCTCCACCAGGATTTTCTATATTGAAGCCAGAGAGGA  
AACTTCCTGCCTCTCTGGAGTATGTGAGCCAGGAAGTCCCATGTCTCACCAGGAGAGA  
AAAGCTGATGTGCATAGAGAAGCACAGATAGACAGTGCTGAGCAATGGTTCAGGAAGAGT  
ATCTTCCTCTGTACCTGCCCCG

Sequence 1110



Table 2

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTAATAAGAATGTGCA  
TTTATTTGTGGGGAGGAGAGGAGGTCTAAATAGACAATAAACATATAAATATTAATATTG  
TGAAAGTGGTATGAAGAAAAATAAGCATGATAAGGAGAGAGAGGTGTTCCCTGGCTCTC  
CAGAGGGCTGAGGTGGAAGAAAAGGACTCCTGTTTTAGGTAAGATATCAGAGAAGACCTC  
TCTGATTGACTGAAATGTATGCAAAGGCCTGCATGAAGCCAGGGACCATGCCGTGCTGAC  
ATCTGGGGGAGGATTATCCTCACAGAGGGGAAAGGAAGTGCAAATGCCGTGAGGTGGGAG  
GACCATGTTTGGTATGTTTCAGGGAGGAACAGGGAGGCCCGTGGGGCTGGAGCAGGTTCAG  
CCATGGGAAGGCCAAAGATGAGATCAAAGAGAA

Sequence 1111

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACCTGTGAACCCAAC  
CTACAGGCTGGCCCTGTAGACACAGAGAACAGGTCCATCCCAGCACCTGGATGACCCCTT  
GCAGATCAAAAGCCTTCCTTGGCACCATGTCAGCCCCTATGGAATAGGCTTCAGGCCAG  
CCCTGTGGATACAGGCTGCAGGCTCATACTTGCAAACCCAGGCTTCAGGCCACCCCTG  
CAAACCTAAAAACAGGTCTACCCAGTGGGCACCTGCAAAGGCCAGCTTGCATGAGGA  
CTCTAGCTGCAAGCACGCTCATGGACCACATTAGCCAGCCTACTCAAATCTCTGTGAAG  
GGCTTTCCCAAACAAGCCAGTCTGCAAAGACTAGAATAAATCTCTACTTCTTCAGATGCA  
TGGACACCAACAGCTAGTCACAAAGATTAACAATCAGAGTAACATGAAATCATTGAA  
GAAATAAATAAACA

Sequence 1112

CCGGGCAGGTACCTGTGAACCCAACCTACAGGCTGGCCCTGTAGACACAGAGAACAGGT  
CCATCCCAGCACCTGGATGACCTTGCAGATCAAAAGCCTTCCTTGGCACCATGTCAGCC  
CCTATGGAATAGGCTTCAGGCCAGCCCCTGTGGATACAGGCTGCAGGCTCATACTTGCA  
AACCCAGGCTTCAGGCCACCCCTGCAAACCTAAAAACAGGTCTACCCAGTGGGCACC  
TGCAAAGGCCAGCTTGCATGAGGACTCTAGCTGCAAGCACGCTCATGGACCACATTAGC  
CAGCCTACTCAAATCTCTGTGAAGGGCTTTCCCAAACAAGCCAGTCTGCAAAGACTAGA  
ATAAATCTCTACTTCTTCAGATGCATGGACACCAACAGCTAGTCACAAAGATTAACA  
ATCAGAGTAACATGAAATCATTGAAGAAATAAATAAACA

Sequence 1113

TTGGAGCTCCACCGCNGTGGCGGNCAGGTACTTTAGGAGACCCATGCGGGCANATTGCC  
TGAGGTGAGGAGTTTGAGACCAGCCTGGCTAACATGGNGAAACCCTGNCTCTACTAAAAA  
TACAAAAATTAGCCGGGCATGGTGGCTCACGCCTGTAGTCCCAACTGCTTGGGAGTTGA  
GGCAAGAGAATCGCTTGAACCCAGGAGGTGGAGGTTGCAGTGAGCCNAGATCGCGCCACT  
GCACTCCAGCATGGGCCGACAGAGCAAGGACTCCATCTNAAAAATAAGAAAGAAAGGAAA  
CAATNGAAAAGAAAAGCTTATATTGAACCTTCTCTAAAAAANGNAAAAAAGGAAAG  
GCCTGGATGCACACAAATCTAAATTTTGGCAAGGTGATCAATTAAAGGGATATTTTAT  
TTTGGCATTCCACAAAAATAAANTTNCTTTACTTCCCCCAAAAAATCAAATTAATAA  
GTTTCAAAAAATAGCCAACCTTTTCTTAATGGTGGTTTTAAAAA

Sequence 1114

GGGGACCTCCTCGTCCAAAGAAGGGAAGACCTTGTCGGCACCATTGAGAGGCGTGTCT  
CTTCTGGCTGCCGCTCGAGCACCGAGAGCTCCAGCTCGTCTACTGGCTGTGAGGGTTGGG  
CCAGGTCCATGTGCCGGCAGGGAAGTCTCCCCGCGTACCTGCCCG

Sequence 1115

CCGGGCAGGTACTTGGACCATCCACAGCCCAGCAAGGCAGAGCAGGATGCTTCTATTCCT  
CCTGACACCCATGAGGCCCTGCTTCAGACAGCCCTTTTCTCCTCCTCCTCCCACCAG  
GCCTGTGTCTCCTCCCCAAAAGGCAAAAGAGGCACCAAAACACCCAAGCCCAGGTCAGGAG  
CCTCCCATCCCTCAGAACTCCCTTCCCCTAGGAAGCAGATCACAGAAATGGGGTGGGCCT  
GGTGGCTGTTGAGAAAGTCCCAGGCCCTGAGAGAGGAGGGCTCTATTGTGAAGCCATTT  
AGCTCTTCCCAACACTCATCACTGCTGCATTTATCTAGGCCATATCTAACACATACCACT  
GGGGATCCTAGGGCTAGGCACTGCGTGGAGCCAAAGGGAACGTGGCCTCACACCCAAGGA

Table 2

GATCCAAGTCTGATGCAGAAGGCCCGCCTCATTCTTAGGTCTG

Sequence 1116

AGGTACGCGGGCGTTCTTGCCGTGATGGCCGCCGCGAGGCAGGGAGTTGAGGGTTTCT  
GCCTTTTCGGAGGGTTTGGGGGATTGTCGGTCCCCTTAGAAGGCCACCAACAGCCCCCAG  
GTTGCCAAGGGCCTGTTAGTTGTTCCTGGAAGGTGGGCAAGCAGCCTGATGGGTTAAC  
ATTGGGATTTGCCGTCGTTATAGCGGTCAAGGGGCCCTGTAGCGGCTGCAGGGTCGGTGAG  
GGTCCCAGC

Sequence 1117

AGGTACTTTCTTTATGCTCTTGACTGTGTCTTCTGCAGGCAGGACAGACTTACAAATCAT  
GCAGGGCTTGCCCTTCAGTCCTTCTGTCAATTTCTAGTTAGCTCTCACGTTGCTAATATT  
CCATGACGCCGTCCAGTAACCTGGGCTGCCCTCGCTCCTGACCGCCTCTCCCCAGCCTG  
GTCAGGGATACCCCTAGAGCAGAGGAGAAAAGTGAAGCTCCAAGCCAGAGCTTCCAGCAG  
CTGAGTGGCTCCTGTTGAGAGCCTGGCTGTCCCAACTGTGGCAGCATTGCGAGATTCTGG  
GCATCTAAGGCTTACCAGATACAAAGGATGGAAGCAGAAATATGCACAGTTCAAAAATGT  
TGCTTTTAGCTTCTAGTGTGAACTTACAGTAGGAGATCACAAGACTGTTTGCCCTGG  
AATATGTAGGTCTTTTGTGAGACAAGGGGGAGGGAGGAAGCGAGGAAAGAGTGAGAGAAG  
AAGGGGAGAGAGAAATGTTGTGAGAGTGCAAAAAGTAGATTTCAAAAGAAATTCATTA  
A

Sequence 1118

CCGNGGTGGCGGCCGCGCCGCGCCAGGTACCTCAGAACAGTGGACTCAGAATTGAGGGTTGG  
GGCAGAGATGGCAATCTGTTTAACAGGTTTCCCAGGTGATACTTACACACACTAAAATT  
GAGAACCCTGGTTTGGATAAACANAAAGAAATTAATTAATAAACTGACATTGAGGAGG  
TAATCTGTGAGAGAAAAGTGAGCTTGCTATCCACACCAAACCTCTATCCCTGGTAGCAACC  
TTCACNTCTGGTTAGTGGGTATGGTATTACCACCTTCTGGCCAAAAATCTGGAAANAAA  
TAATAAACTGGAGGAAACCACCGAACCAACACTTGGCCGAACNAGAAGAGACAAAACATT  
TCCTTTCAGGGGATCC

Sequence 1119

GGAGCTCCCCGCGGTGGCGGCCGCGCCGCGGCAGGTACATATTTGTTGAATGACAAAATGAG  
GGGATAAATAAATTTCCCTAAGATGTGTATGTAGACGTTTGAAAATAGAAGTCTGTCGC  
TGATGTTTCTGTCCACCAGGAGTCAGGCTTCAGCCAGGAAAGAGTGAGCCAGTGTCTGAG  
CTGTCTCTCGCAGGCCTTCCACCAGCTCCAGGTCACCAGATTGAGGCCAAGACTGAGTT  
TCAGTATTTGTCGTTAACCTGTAGTCCAGCTACTCAGGATGCTGAGGCAAGATGATTGC  
T

Sequence 1120

CCGGGCAGGTACTACTTTCTCTTTTTTTGTTTGTTCGTTNTGTTTTTGTGTTTGAGAC  
AGAGCCTCACTCTGTACCTAGGCTGGAGTGCAGTGGCTNAATCTCGGCTCGCCGCAACC  
TCCGCCCTCCCAAGTTCAAGCGATTCTCCTACCTCAGTCTCCAAGTAGCTGGGATTACAG  
GCATGCGCCACCACGCCCAGCTAATTTTTTTGTATTTTGTAGTAAGAAGACCGGGTTTCTC  
CATGGTTGGTCAGACTGGGTTCTCAAACTTCCCAACCTCANGGTGATNCTGTTCTGCCT  
CCGGCCTCCCAAAAGTGCCCGGGGCAATTTACAAGACATTGAAGCCAACCCGCCGCCCTGG  
GCCCTAATTGTAGCNTACCCTNTCTTGAATCTTAATTTTGGGATATTGAATGGNNGGTTA  
NNANAAAANGGTTANGTTTTANGAAAAGGAAATGTTTNCCTGGNNATTAATCTTTCTTT  
TTAACCCCATCTTTAAACCACTTTTTTANCCCCCTTCTTAANAACCTGGTTTNAACA  
ANTGTTTTTCCCTTCNTTTTTGGNAAAAATCTTTTTNTTCAATTGTGGCCCTTTT  
AATTTCAATNTGGGNATTTTTGCTTANTGGTCTCCTAACTTTTTNTTGGAACTTTAAA  
AACNAAAAAACAACAAAAAACCCTCGGCAANTNTNTCCANTTTNTTTTAATTTTC  
CCNNAATGGGGCCCCCTACTTTTANTTANGGTTCTTTTTGGCCCAAAAAATTANTGCCNT  
GGGCTTGGGTCTNNATTTTTTCTTTTCAAAATT

Sequence 1121

Table 2

AGGTACTTAAAAGCTCGTGGGCCTCAGATAATTGGCCTCCTAACCAAATTCAGCTGCTGG  
GGCCTGATCAGAACTGCTGGGTTTCTTTTCCCTAAGCCGATTTAATCCCACCGCCAA  
GCCCTCTGACCTTATTTTCTTTCTTCTGCTGCTAATTCCTGGAAAATGGAGTCTGGAA  
ATACCTAGGGACTACTTGGGTGGGCTCCAAAGCTTCAGGGAGAAGAGATAGGACTGAAGG  
ATGCAAAAGGGATGAAGAGAGAAGCCAGGCACCAAGGCCACATCTTGTGACTCCATTAC  
AGGAAATATACCGTTTAGGTAAATGCATATCGGTGGCTGCCAGGGGCTGGGGGAGACGGA  
ACTGGGAGTGACTACCTCATGGGTACCTGCCCCGGGCGGC

Sequence 1122

GGGGGACCTCCTCGTCCAAAGAAGGGAAGACCTTGTCTGGCACCATTGAGAGGCGTGTCT  
CTTCTGGCTGCCACTCGAGCACCGAGAGCTCCAGCTCGTCTACTGGCTGTGAGGGTTGGG  
CCAGGTCCATGTGCCGGCAGGGAAGTCTCCCCGCGTACCTGCCCCG

Sequence 1123

CCGCGGTGGCGGCCGGGGGACCTCCTCGTCCAAAGAAGGGAAGACCTTGTCTGGCACC  
TGAGAGGCGTGTCTCTTCTGGCTGCCGCTCGAGCACCGAGAGCTCCAGCTCGTCTACTG  
GCTGTGAGGGTTGGGCCAGGTCCATGTGCCGGCAGGGAAGTCTCCCCGCGTACCTGCCCC  
G

Sequence 1124

TCCCCGATGTTCTCTGCATACTCTAGGGGGACAAAGATAGAGTCAGGAGTGGATCCCAGG  
CATGGCATCCACCGTGGCTGCGTTCGCTTACCTTTCCAGAACCCAGCTCCCACANA  
GGTGCAAGTCGCCCTAATGCCCCACTGTAGCCAAATTCCTTGGGGTCTTGCCTTTGAGG  
CCTCAGTGGAAGGTCCCAACTTACCTTTCCATGCTTGGATTCCCCCTCCTAGCCACACCC  
TTCACCTNCGCCCTCATGTATTTATCTCACTCAACACACATGGCNTGGATGCTNNTAAGGT  
CTGAATGTTTNTGTCCCC

Sequence 1125

ACTCTCCACCGCGGTGGCGGCCCGGGGGCCATTGAGACTGCCATGGAAGACTTGAAAGGT  
CACGTAGCTGAGACTTCTGGAGAGACCATTCAAGGCTTCTGGCTCTTGACAAAGATAGAC  
CACTGGAACAATGAGAAGGAGAGAATTCTACTGGTCACAGACAAGACTCTCTTGATCTAC  
AAATACGACTTCATCATGCTGAGTTGTGTGCAGCTGCAGCGGATTCCTCTGAGCGCTGTC  
TATCGCATCTGCCTGGGCAAGTTCACCTTCCCTGGGATGTCCCTGGACAAGAGACAAGGA  
GAAGGCCTTAGGATCTACTGGGGGGAGTCCCGAGGAGCAGTCTCTTCTGTCCCGCTGGAA  
CCCATGGTCCACTTGAAGTTCCCTTATGCTACTTTCACTTGAGCCATNCTATGAAATACAC  
CAGTGAGAAATTCC

Sequence 1126

AGGTACTAAAGAATGTGCATTTATTTGTGGGGAGGAGAGAGGTCTAAATAGACAATAAA  
CATATAAATATTAATATTGTGAAAGTGGTATGAAGAAAAATAAAGCATGATAAGGAGAGA  
GAGGTGTTCCCTGGCTCTCCAGAGGGCTGAGGTGGAAGAAAAGGACTCCTGTTTTAGGTA  
AGATATCAGAGAAGACCTCTCTGATTGACTGAAATGTATGCAAAGGCCTGCATGAAGCCA  
GGGACCATGCCGTGCTGACATCTGGGGGAGGATTATCCTCACAGAGGGGAAAGGAAGTGC  
AAATGCCGTGAGGTGGGAGGACCATGTTTGGTATGTTTCAAGGAGGAACAGGGAGGCCAGT  
GGGGCCTGGACANGTTTCAAGCATGGGAAGGCCAAAGATNAGATCAAAGAGAATAGTGGGA  
GATCACGTAGAGATTTATTGGGCCATTTGTGAGGATTGTGGCAGCATTGAAAAAACTGG  
GTTTGATGCTTTAAAAACAACNAGCCCATTT

Sequence 1127

AGGTACGCGGGATTATTTCTGGAATTTCCGTTTACTCTTTGCAGACTTTGGTTGACCTT  
GGGGAGCAAACCGAGGACCGCGAAACCACAGATCAAGGGGGAGCTCGTGTGATAGCAGCT  
CTAACTTAGTGCTTACAACATGCAGGCACTGTTCTAGTCATTTTGCATATTTTATGAAT  
CCTCCCACAACCAACCGTGTTCACGAGGAAACCGAGGCAGAGGGAGGTTTAAATGAGTTGCT  
GGAGGCAGCCCANCTGGTGAGCTGAGGCTCANCCCGCACCGACCCGTGCTCTGGCCCCAA  
AACACTCCTCGGTAACCCCCATCCTGCCACACAAAATGGCCCCGGAACACANCCGGCTG

Table 2

CTTTGGAGTCANTTTCTCTCTCGAATGACTTTTTCCACCGTTGGCTTCNATCTGGGAGTT  
CCCTTTTTCTGTGATTTTGCCTGTCAATTTTCTATTCTTTGGATGTTAATTCATTTT  
TCCCAGGGNGCTAAAAAGGGGGCTGGGGGGNGTGGTTTTTTCAATTCTCTACAGGGN  
GGGCCCTNNGGATGGGTAACAAAAANCCGGANAAGAATNCCATANTTTTACCCCAANNT  
GAAAAACTTGCGGGNCCCCNNTCAAATNTNGAAAACTTGAACCCCTTGGGAAANAATTC  
TTGGCNATTTTTTACTTNAAAAGCCANAAAACCTTGCTTTAANTCCAAANNNNNNANAA  
AAANAANCNNNNNNNAAAATTCCNNTCCNCGGNGNCCNNNCNNNTTTTTNNAATNTTTT  
NGNNNNCCCCCNCCNNNGGGGANNTTTNTTTTTNNNANTTTTTTTTTCCCCCNCC  
CCCCCGGGG

Sequence 1128

AGGTACGCGGGAAGAATTTAAGTTCGTGGATTAATATCACTACTTGAATACTGACAGTT  
GTTGATTAGACACCGAAAGGTTACTGATTGTTGAATGTATCTGTGTTAGAGCTGTGCACT  
GGCACGCTTGCATCAGGGGCTGGGGCCACA

Sequence 1129

CCGGGCAGGTACGCGGGGAGACTTTCCCTGCCGGGCACATGGACCTGGCCCAACCCCTCACA  
GCCAGTAGACGAGCTGGAGCTCTCGGTGCTCGAGCGGCAGCCAGAAGAGAACACGCCTCT  
CAATGGTGCCGACAAGGTCTTCCCTCTTTGGACGAGGAGGTCCCC

Sequence 1130

CCGGGCAGGTACTTTAGGAGACCCAGGCGGGCAGATTGCCTGAGGTCAGGAGTTTGAGAC  
CAGCCTGGCTAACATGGTGAAACCCCTGTCTCTACTAAAAATACAAAAATTAGCCGGGCAT  
GGTGGCTCACGCCTGTAGTCCCAACTGCTTGGGAGGTTGAGGCAAGAGAATCNCCTGAAC  
CCANGAGGTGGAGGTTGCAGTGAGCCGAGATCGCGCCACTGCACTCCATCATGGGCGACA  
GAGCAAGACTCCATCTCAAAATAAAGAAAGAAAGAAACAAAGAAAAGAAAGCTTATATT  
GAACCTCTCTAAAAAAAAGAAAAAAGNAAAGCCTGATGCACACAAAATCTAAATTTGG  
CAAGGTCGATTCAATTAAAGGGATNTTTATTTTGCATCACAAAAANAATTTCTTTTACTC  
CCCCCAAAAAATCAAATAAAAAAAGGTTCAAATNGCCAAACCTTT

Sequence 1131

AGGTACCAGGTTGGGCTAAGAGATGAAAAACCAGGCTCAAGTTGGGCCAGAGATGGACAA  
TGAGCCACTTCCACCAGAATTCCAGCCACATATGCCACCTCTGGGTGAGAAGAGCCAA  
ACGTATTTATCGCTTTTGCTCAGGGCCAACATAGACACTTGATTCTCTCTCAGGGCTGTG  
TTTTCCCCCAAATGTATCAATACATCCCTATTTTCTTCCCCCTTTGTTTTCTTTCCCTG  
GTGACCTGCTACCCACACCCACAGCACTGATGGTGTTCCCTCCACCACACCGAGACCC  
CGCCACAAGCTCTCAGCCCTCGTAGAGCACAGGCCCCACCCTGAAAGTTGGCAGAGCACC  
GGGCTATCAAGCTGTGTATTGTGGAGCCAGCAAGCCCGGCACAACCGTGGATCCCGGGT  
ACCTGCCCC

Sequence 1132

AGGTACAGCTGCATGTGTCTTTGGGGGGCTAAGTAAGGACTGGCCTATCTGAGCACACCT  
TCCAGGGACATTTATATGCCCTGTCCACCGTCACCAGTGATAACATCAAGGGCCTGAACA  
GAGGACCATCCCAGCTGCTGGCACCTGTATATGTTATTATGAACCTAGAGACTGACCCA  
CTTAGAACTGTGAGGGCCCTCACGTGACATCCAAGGGCCTGACGATAGATGTGCCTCGCC  
CTCAGCTACCACCTCCAGACACTGTTGGAGTCTAGGCATTGGCTGGCCATACCTGCAGCT  
GCTGACACACACACACACACACACCTTTCAAGGGGCTCAATAATGGACCTACCTTGCT  
GCCACTGGCACCTGTGGGCACTTCCCAGGGGCCAGGGACTGGCTTCGTCCACCCTGCCT  
CTACCACTATTGTCCCCACATGCATTANCTTAAGACCCCAAGGGATA

Sequence 1133

AGGTACTTGGGCTTAGGCTGGGGTTGAGGGCTGGGCCCTGAGCCGAGAACACCTGTTAAG  
TGACTTACTCCACAGGAACCTTAATGGCTGGTCCCTGATAGACTGGGAACCTCATGAG  
AGCAGGGGTGGGGGGCTCATTTGCTTGTGACCCCGGCACTCTATGCTTAGTTGAACGA  
ATGCTGGATGGGCTGATGCGGGCGGTGTCTCTTCCCTTGCTGCAATCAACTGGAACAG

Table 2

GGTGGGAGGGAGCCCTGGGATCCTCCTGGAATCCTTACACAGGAACTCCAGACCCCGAGC  
CACCAGTGGCCAAGCAGATCTCCTTCCCGGTACCTGCCCCG

Sequence 1134

CCGGGCAGGTACTAGAAGGATTAATTATATTGCTTGCATTTTTTTTAAAACTTTTATTT  
TTGTGACTGAGTCTCACTCTGTTGCCAGGCTAGAGTGCAGTGTGTAATCTCGGCTCAC  
TGCAACCTCCACCTCCCGGGTTCAAGCGATTCTCCTTCTCAGCCTCCTGCCACCACACC  
TGGCTAATTTTTGTATTTTAGTAAAGACAGGGTTTACCATTGTTGACCAGGCTAGTCTC  
GAACTCCTGCCCTCAGGTGATCTGCCCGTCTCGGCCTCCCAAAATGCTTGATTACGGGC  
GTGAGCCTCCACGCCCAGCCGCTTGATTTTTTAAATAAAGATTGCAGGTTTAGTTTTA  
ATTTGGATAATTTCTCAATCTGTTTTTCTTGGTTCTTTTTTCCCAAATGTTTAATAC  
TGCTTACTACATGTGNAGTTTTTACCATTGAAAATATTGCCGTTTCTAGTTTTAAATTT  
TTATGACTGTACCT

Sequence 1135

AGGTACGCGGGAGGGAAGAGTGGCCTTATGGCTACTCAAGCCACGTGTTTACCTAAAATG  
TGCTCCTAGTCGCATAGCTTCTCAGAATAGTCAAAGAAGAAAGGAAAAGAAAGCTGGATG  
TCCCGGGTTTATTTTTTCTGCATCTTTGCAAATATGAGACACAACCTCTGTTCCAGGAGCT  
TTCGATGCGCTTCTACAGGTATTTCTTTTTCTTTGTGTCAAGGATAAATGTGAAGATAG  
CTGTGGAATTGTCCGAACATTTTGCCTTGAATTAAGCAATGTTTTATGCCTAATTTCC  
CAAAGGACAAGTTATTTATGCCAGTATTAAGCAGCAACTTATATATTCTACGCAAAAC  
AGAAAACCAGAAAGATCTAAATTTTACAAGTCCCTAGTTTGATGAATTGAAAGACAGGA  
AGATGACTACATCACAGCAGATAAAGAGATATTTTCATAAACTAAGCTCTGGGAAACAG  
AATACCAAAATTACCCATGTACAACCAACTACTGCTCATGGGTTCCCCAANAAGACTTGTG  
TGCGGATTATACGAGTCATTGCCCAGTTGTGATAGTCTCAATTTTGAA

Sequence 1136

AGGTACGCGGGAGTATGAGTAGAAAATGTGACACAGAGATAGGAATTAGTCACATAATG  
TTGGA AAAAGAAGAAACAGTAACCAGGAACGGGAGGAGTAAACAGAGCTTTTAGTTAAA  
ACAGGATCACTGCCAGACACGATGGCTCATACCTGTAATCCAGCACCTTGGGAGACCGA  
GGTAGGTGGATCACGAGGTCAGGAGTTCAAGACCAGTCTGGCCAACACAGTGAAACCCCA  
TCTCTACTAAAAATACAAAAATTAGCTGGGCGTGGTGGTGCCTGTAGTCCAGCTA  
CTCCGGAGGCTGAGGCAGGAGAATTGCTTGAACCCGGGAGGCGGAGGTTGCAGTGAACCG  
AGATCGCGCCATTGCACCTCAGCCTGGGTGACAAAGCGAGACTCCATCTCANANAAAAAA  
AAAAAN

Sequence 1137

GTGATTGCTTTCCAAGGCCACCGAGGGTATCTGAGACTCCCAGGCCCTGGTTGGTCTCTGC  
CTCTTCTCCTTCATAGTGTCCAGTGTGTGTCAGGAGGGCGCTGGTGGTAGCTTGGACCTT  
GTGTGCCAACGCTTCTCAGGTCTGGGCCTAACAGCCTCCACTGCCTGGGCTCACTCAGG  
GAGCGCCTCATTATTTGGGCAGCCATGGATTCTATCCAGCCCCATCATCAGTTCAGGGA  
CACAACCTGACTGAAGATGCCAGACATCCTGAGAGTTGCCAGAACACAGG

Sequence 1138

CGGCCGCCCCGGGCAGGTACATGGGAAAAGAGGACAAAGTGGTGAGTTAAATCAGCTAGTC  
TGTAGCAAGGCATGTTTCCCCAGGGACTCAGGTCCCCGCTTCAAGAGAACCTGTTCTGGA  
GACCCCTTCTTGACTGTGTCTGCTGTGCTGGGCTGGGACTTAGTGGACAGAGACAGCAG  
CCTGTAAGCCCCCTTTTCCCAAGTAAGGAGCAAGGGCACATTGACATANAAGCAAGCTGAC  
ATTTCCCAAGGGACGTAGGAAGTGCCTGCACCTCATGTTTTTCAAGTCTGCAAAGGA  
AACAGCAGTGGTACCT

Sequence 1139

AGGTACCATGCAATTACAGAGCAACTTCAGCTAATGGGGACTCCAGCATCTTGGCATCCT  
CGCTGGGTGGAGCAGAAAGCGAGCATGGAGCTTCCACTCATAAACCTTTGGCTTGCTAGC  
CACAACCTGATCACCTAGTTTTACGTAAGTGCAAGGGGTGGCTGGAAGTAGAGGTTCCAAG

Table 2

AAGGTGCAGAAAGCTGTCTATTAGTGAGCATTAAATGTATGTTAGTGTTTAAACAAGAA  
GTTGCTGGTAAAGCGTTTTGTGCAGTGGCTATCACATGGAAAATTTTCCAATAAAGAAA  
TATACTATTACAGTTATAAATAATGTCCATTAGAATAAGCATTACATAACTCCTTCAAAT  
CAAAGACATATATTTGAATATGTGATAGCCAATCAAATATTATCTAAAATTAGGAAGGN  
GGGTCCATAGGAACTGAATATATATTTTTTAAAAATGGAAATTGAAGGAG

Sequence 1140

AATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTTTGTGGGTTGAGGGTAGGA  
GGCTAAGACTGCCAGGGAGGAGGCCCGGCTTCTGCTCCTACCGGGGAGCAGCAGGTGA  
AACTCTGACCACGTTACTGCAATCCTGACATGCTCCAGTGGAGTGGCGACATTTTCTTC  
TCGAGGCAGCTTTTGGGGATCTGTATTACTTTTCATGTGGACCACTTGCTAGTTTTGATT  
CAATGATAATTTCTTCTTCTTTTCTTTTNTAANCCTGTNTTNTAGNGATAACAACNC  
ATTTANCATTTGTTTNGATTTNACCCTCTCCTCTCTCCCCACTNTNAGTNTGNAGCCAGG  
AAAGCAGGGACNTCCTGTGCNAACTGTCAAACCACCACAACCACACTNTGGAGNAGGAAT  
GCCAATGGGGACCCTGTCTGCAATGCCTGTGGGCTCTACTACAAGCTTNACAATGTAAGT  
GGACTGGGATCANCAANAACAGGGCTCGCTTCTGATGGGGACCACAAAACAGNGTNCCA  
CCACCCTTTCAAGTGAATCCNCACCATNGGGGCAAATNACAGGTCCNAATAATTGATGCC  
ATAGGACCTANCTTGAAACTACTTTTTTAAACATAACCCTCCTTAAGCCCAGGGGCTTA  
AAACTGGNANCCAAAAACCCCTTGGTTTCTTTGGAACCTCCCAATACCATGCCCNAAA  
ATTCCAATTTTCTTAATNGGGNCCTTTTGGGTTNTTTGGGGAAA

Sequence 1141

AGGTACGCGGGATTTCAGTAACAGAAATCTCCCTTCCCTTCTTTCTCTGATGTGCAGTAGT  
TCTGCCTGTTANAATCATCTGGAGAGCTTGTTAAAAATACCAATGTCAGGAGCTCGACCC  
TAGAGATTCAAATTTAACTGATCTGGTGTGGGACCTGGAAATCCTCTATTTTTTAAAGT  
TCCCCAGTTGAGGCCAGGTGCGGTGGCTCACGCCTGAGTCCCGGCACTTTGGGAGGCCGA  
GGCGTGTGGATCACTTGAGGTGCGGAGTTCGAGACCAGCCTGGCCGGCGTGGTGAAACTC  
CATCTCTACTAAAAATACAAAAAAATAGCCGGGTGTGGTGGTGCACACCTGTAGTCCT  
AGCTACTCAAAAGCTGAGGCATGAAAACTCTTTGAACCTGGGANGCGGACATCCANTGAG  
CTGAAATCATGCCACTTGCACTTCCACCTGGACAACANANTGAGAATTCATTTTCCAAAA  
AAAAAAAAAA

Sequence 1142

AGGTACTCGGCCTACTTCCCTATTTTCAATGCCTAATGATTTTTGCTGCGCCTGAACACA  
TCTGGAGGGAGCCAGGCCACTGGCTGCCTCTCGTCCCCTCCAGGCCCTCCTACAAAGG  
TGCACTCAGCAAACCCTCCAAGTACCTGCCCCG

Sequence 1143

CATAAATAAGGGTATCACAGGGTAGAAGTAGGATAGAACATAGGCCTAAAACCCCTATAA  
GCCCATTGTCTGAGCTGACCTCCACAGACTGGTGAGTTTTATGGTTCTCATCANACCCGC  
ATNTATTTAAGACAAACTGGGCTGNNGGTCCCTGAAATGAAAACCGGATGAGGGTCTCCT  
TTCGTCTTGCTTTATGCCCTTCAGAGTTTGACTTGTAAACCAAAGAGGGAGCATTCTCCCT  
TGGTCTNTGCCTCTGGGGGTGTGATTTTCAAGGTACGTTCCAGTAGCTAGTCTAAAAAGC  
ANTGGGAATCCTGAACCATNGTCAAAATTTTAAAGCNGCACTNNTNTTTTTTTTCCCCAA  
AATGTGCCCAAAGCNTGTCAAGGGGGAGTCTTGTCCCTAAAAAAGGGAGTTTNTTATTC  
CNTTGAAAGGGGCTTCTTGGNTNGCCTTCCATTTTTTGTNNGCCTGGGNTTANNGCCT  
GGGNNAAGNTCTAAANNCCNTTGAANAAGGCCCTGCCCTTGNNGGTNNNCAAAAGGC  
GNTTCANCAAGGGTTNGGCCAGGGTNTTTTGANCTNAAAAAGGCCCCCCCCCANTNNTGG  
NNCNCNTGNTNCCNTGNTGCCCTCCANTNNGGGANNACCAAGTTNACNCCNTTCTTTT  
AAACCCNGCTTGNTGGGNNAACANGGNNTATCTTGNTATTTTTTAACTTTATTTNTTN  
GGGGNGAGAAAAATTTTGGGGGGGGNNTCNTTAAAGGGTTNNNTTTTTTCCCNCCC  
TTTTATAAAAAAAGNATNCCNAANTTTTTGGTNTTGTGTTGTTTTTAAATNANANCN  
NCCCCCCCCCCCC

Table 2

## Sequence 1144

TNCNGGCAGGTTNTCGGGGAGACTTTCCTGCCGGCACATGGGCCTGGTCCAACCCTCAC  
AGCCAGTAGACGAGCTGGAGCTCTCGGTGCTNGAGCGGCAGCCAGAAGAGAACACGCCTC  
TCAATGGTGCCGACAAGGTCTTCCCTTCTTTGGACGANGAGGTCCCCC

## Sequence 1145

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACACAGTGGGCGCTGGGG  
ACCAGGGCCAGAGAGTGGCCACCTGTTAGAGCTGCATGTGTGTCTTGGGCCTGGTCTTCT  
TTCTCTGCTCACTAATGACAGCTGTCCAGCCTCTTGACAGGCTCTGGCCACCACCTTGC  
TTGCTGTGATTTTTTTTTTTTCTCACACATGATAAGCTGAGGCAGGAGAATCCGCTTG  
AACCCGGGAGGCGGAGGTTGCAGTGAGCCAAGATTACGCCACTGCATTCCAGCCTGGGCG  
ACAGAGCAAGACTCCGTCTNAAAAAAAAAAAAAAAAANANAAAAAAAAAGGTGACAAGCAGAGC  
AAGCGCATCTAGGTGACACCCGGGANATGGAATCGGGACGGCAGGATGAGCATGGGTTTG  
TGGCGAAGAAAACCCGGGGCAATAATGGACATACAATGCAAANTTTGCCANAGTCAGCAA  
AAGCCATATNNGGTAGAAAATTGCCAAGAACANAAAAAGAGGGGAAGGGTNAACNCCT  
AGTGNAGGCTACTTTGCTNNTGACAAGNCANGCCCGGCNATTAAGGGNGTGGTTTNCAC  
TTGGGANGTGAAAGGAAAGGNGGGAAACCTGGAGGGGGGAANAATGCTTGGGGANCCC  
TTTTCAAATCCCCCNCTTTTCCCTTGGAACNCAAAAANTAAAAA

## Sequence 1146

AGGTACCAGTAGGAAATTGGGGAAGAGCCAGGAAGGGACAGCAGCCAGTAAAGTGGGCAT  
TATCAAATCAGTTAAGCATTGTGGGCACCTGGAGCTTANTCACACTGGGGGACTCTTATA  
CAGCATGGAATGCTTGTCTTGTGGTTGACCCATCCTAGAGGCAAGGGAGTAGGTATTTAT  
TCACCAAATCTGTACAGGCATTTGTTGGGGACTGCCTTCAGAGGCAAATGATTCCCTGTC  
ATTTACAGGACTATCACTTGGGCAGCCAAGAGTAATCCTCCAGGCAAAGGAATGCAGGTGT  
TGGCAGTCAAAAGACAAGGTGGTGGGCGCTGAAGTGGTGCCATGGGAGTATAGTCGAGGC  
ACCAAGCAGCATCTACCAGCAGGGCAGCCTGTAACCCCGACTTTNCACCTGAGGATTTGT  
TGGCCCTNATTTTNGGANTTTTTGCAATNGTTTCTCATGGAGGGGGCAAACNTNNGTTTAA  
GCTTGGGAACCACTTNANCTTGACCCACACCAAGCATTTT

## Sequence 1147

CCGCGGTGGCGGCCCGCCGGGCAGGTAAGTTTGTAGAGACAGGGTTTTGTCATGTTGG  
CCAGGCTGGTCTTAAACTCCTGACCTCAGGTGATCCACCCGCTCGGCCCTCCAAGGTGC  
TGGGATTACAGGCATGAGCCACTGTGCCCGGCTTATTTCTCTTTTAAACTTACTATTA  
TTATTGTCATTCTCAAATATTATCTCATAAACGTTATATTGTCTATATCAGATATTCAG  
TGTGGGCTATGTTTTTAAATAACAGATGGTATTTGAATATATAAAAGATATAAATCCTT  
TTCAAATGTTGCTTTGTCTATTTTCTGAAAAGTTTGACAACCATCTGTAGAGCTTTTG  
CAGAAGACTTTTTTCTTCCCTCACTTTTAGTCTCTTTAAATCAATGACTATTTTTATT  
CTGCTTGGTCANGCAAGTANGCCCTTTGATTTTACAACAGCCTNTATTTCCCATGGAAACA  
CACAAACACACATACATATAATTTCATTTTTGCCTTTAAAAATTTCTTTTTT

## Sequence 1148

ACGGTAATACATACACCAAGAACAGAGACAGTTACAAAAACAAGTAAGTGTGATATAGG  
CGGACCCACAAACAAGAATGTAAACATAATCAGATAGAAATTATCTGCTAAAATACATTT  
GTCTATGCCAATAGGCATTTTACTTAACAATAGGTTATCAAAGAGTCAATCTTTGAGAAC  
ATATTTCATATTTTCTCTCATTATCTAAGAAATGTGAGCTATTGAAACACAATATATCT  
TAGGCAACITTTTTTTTTTCTTCCAGAAAATCTGGCTCTGAAGTGAATACATGTAGTGCT  
TTGGTTTATAAAGATTATAGAACGATTTTTTTTTTTCTTACAAGGGTTGCCAGACTTAT  
TTGGGATGGTGAGGTTCTACCATATAGGAACGAGGCAGTAGTAGCATACATACTGAAGCA  
ACTGCTGTGCTTACAGACTAGTAAGCACAATGGGAAA

## Sequence 1149

CCGGGCAGGTACGCGGAGGGAAGGCAGCTCTTCAAAGGAAAGGATGCTTGGAGACAGAAC  
ACTGGACTTCTTCTTGCAGCCTTCCCCAACCTCCCCAGGAGTCAAGCGCTTCTCTCTG

Table 2

GGTGTCTCCGGAAGTCGTCATTAATACCTCTCTTCCAGCATGAGTTATGGCACCCTGTG  
GTTTTTCTGATGATGTGCCTTCTCATCCATCCAATTCAAGTTCCCAGCAGGCAGTGATTT  
TGTCTGTCTGCCCTCCATATCCACCCTCCACCCTTTCCCACTGCTCTCCCATGTGGATG  
GCACCCTGGTGTCTGTGCCCTCTGGCTTCTGGGGGCATTTGGCCAATGCGGCTCACCAT  
CAGCAGGAGATGAGAGCTGAGCTCTTGGTCTCTCTGGCAGCTTCCCTACAGGGTTCTGT  
GAGCTGGTGGCCTCCTGACTAAAGGCGACAAGCCTCTTTGTCAAGAAGTCCCCACATAA  
CTTCAAGTTCTGGAAGCAGCTTCCTTTCT

Sequence 1150

CCGCGGTGGCGGCCGAGGTACCAGCAAGTTCCTTTCAAAGGTCTGTGGACCTTCACAGAG  
TTTAAGCTATAAATCAATAGTTGCTGGGCCTCAGGGGAAAGGAGAATTGGTGAATCCTGG  
CAGCCTCACAGACTTTAGAAATCAGAAGGCCAGACAGATTCTAATTGTAATGAGGCTG  
TAGGTTTGTGTTTGGATTTTGTCTTCTACTTTTAGTAACATCCAGAATGAGTTACTGCC  
CTTCCAAGGAAGGCCATCCATTCCCCAAGCAATTCAGTGTTTGAATTGTGATGCTGCATG  
CCCCAGTCTCATTACAAACAAACAGAGCAGTGCTGCGGCAACCTGGCAACGTCCTTAAAT  
GACCCCTCCACACTCTGCCAGGCCCTGGGTGCTCCACCAGCATACAGGCTG

Sequence 1151

CCGGGCAGGTACGCGGGGAGACTTTCCCTGCCGGGCACATGGACCTGGCCCAACCCTCACA  
GCCAGTAGACGAGCTGGAGCTCTCGGTGCTCGAGCGGCAGCCAGAAGAGAACACGCCTCT  
CAATGGTGCCGACAAGGTCTTCCCTTCTTTGGACGAGGAGGTCCCCC

Sequence 1152

CCGGGCAGGTACTTTTTCTTCTTCTTTTTTTTTTTTTTAAAGAGAACATCTGAATG  
ATGTATTGCGAAAAAACATTTCCCAAGAATATGGAGAAAGGGAATTGAACATAATCCC  
AGTGTAAGAGTGGAATGAGCATGTGGCCCTGNGGCCCTAGTCCCAGTTTGTAACTTGT  
GAGCAGAGCTGCTGGCGGCTGCTCTCAGTCCGCTAATCGGGCTCTTCTCTGCACGTGG  
ACAGGAGACTGCTCACAGGGTTGCAGTTGGCTGCTGCCCTGCGTTGACAGCTGGTTCTAA  
TTGTGCAGAGCTACCGTAGTACCT

Sequence 1153

AGGTACCATTCACTACCTGTCTTCAGCAACTACCAGCAAATGGCCAATTTGATGTCATTT  
TTGTGTCAACCTACTACCTTCTAAGCCAATTGGATTATCTTCCAAAACATCCCAGACCTT  
ATATCCTGTACACATAAGTATTTCAAGATCTAAGGTAGTCTTATCTAAGGTAGTCTTTT  
ATGCCATCTTATGCCTTTATGTGTCCAATTATTTCTGTAAAGTTCCTCATTTCTCCTC  
CATATTTTCCATTTTAAACAAAAGCCAACCTTCTGTGGCTTTTTTTCTTTGTATACAC  
ATGGTTCCAGTCACCCTGAGGTCAAGCTGCTGCAATGCTTTATTTACCTTGNAGATATTG  
GGTATATTTAGTATTCCTTCTATCTGCAAGCTAAGGGAGACAAAAAATAACAAAACCTCT  
TAATCTGCTTNCCTTTCTTCTTCTTCTGCGTGGGTTGGAATTCCTACTCTCTGCCTCTGGAAG

Sequence 1154

CCGGGCAGGTACTTTAGGAGACCCAGGCGGGCAGATTGCCTGAGGTGAGGAGTTTGAGAC  
CAGCCTGGCTAACATGGTGAAACCCTGTCTCTACTAAAAATACAAAAATTAGCCGGGCAT  
GGTGGCTCACGCCTGTAGTCCCAACTGCTTGGGAGGTTGAGGCAAGAGAATCGCTTGAAC  
CCAGGAGGTGGAGGTTGCAGTGAGCCGAGATCGCGCCACTGCACTCCAGCATGGGCGACA  
GAGTAAGACTCCATCTCAAAATAAAGAAGGAAAGAAACAAAGAAAAGAAAGCTTATTAT  
TGAACCTTCTCTAANAAAAAGAAAAAAGAAAGCCTTCCGCGTTACCTTCGGGCCC  
GCTNTAGAACCTAGTGGGGATCCCNCGGGGCTTGCAAGGAAATCCGATATCAAGGCCT  
TATCCNATACCGTCGGACCTTNGGAGGGGGGGGGCCCCGGNACCC

Sequence 1155

CACCGCGNGGGCGGCTCGAGGTACAGCATNCTGTTAAGTNACCTCTAAAGCCCTGNCAGT  
NAACTCTGTCAGAAAATAAACAGAAATGTCATTATTAGGAAAACAAGAAAGCCCAAACCT  
TCTAGTTTTTTGTCTTAATAAACTGAAATTTATGTGTGGTTTCTGCTGAAATGTTAAT



Table 2

TTCCAAGCATAGTTTTAATGAATATGCTTTACAGAAAAAAATCATGTTTGTATTTAC  
AATAAAAAATTCTGAAAATGGATTNTCTTCACATTANTCTCGAATGTGCAAAAAATACCT  
TGGAGAATTCTTTTAAAAAAAATCTTGGTTATTTTAAATTTTNTTTATAAGGCCCG  
AAAGNAAGGAAATTNAAATTTTCTATTTTCACCNAAAAACAANAAAAACAGGNTCCNTT  
TGNTTTATTATCTGGGAAAAAAAACCATTTTTTAAAAANTGNTCCCCCTCCTGGATCCA  
AATNNAATATTTAGNACCATTANTGGGTGGTTGNNTNATAATTAAAAATGGTANTTTT  
TCTTTC

Sequence 1156

.CCGGGCAGGTACGCGGGGAGACTTTCCCTGCCGGCACATGGACCTGGCCCAACCCTCACA  
GCCAGTAGACGAGCTGGAGCTCTCGGTGCTCGAGCGGCAGCCAGAAGAGAACACGCCTCT  
CAATGGTGCCGACAAGGTCTTCCCTTCTTTGGACGAGGAGGTCCCCC

Sequence 1157

ACTTAGCACTGGTTTTCAAGCTGAAAAGTAAGTATAAGTCAGCAATAAATAGTTGCCATT  
TATGAATACACAGGACAAAGAAAATTGAGCACCTAGTGGCTGATGTTTGCAAAATATTAA  
ATAACTTAAGTTCATTGAATACAATTAGAGTCAAATTAATGAAGCTTAGAGATCTAGTGT  
TATTTAACTACTAGTAGTGGGCCAAGTGTGCCATTAACATTTTTTAAATGATGAAATA  
GAATAGTAAAAATATGTTTATTTACCTAATAGGTTCATTCTAGCTTTAAAAAAGTGT  
GTTTCATGAAGCTTTTGTGATTTTGCATATATAGATACCCCAAGTGTAAGTGTATTTGT  
TACTTTGGCTCATAGTCCAAAACTCTGAAAGCCACTAATCTAGCCCAGTGCCTTCATT  
TCATAGGTGGCAAAATTAACCTATGGGTCTATCTGATTTGCCAAAATCACTCAGGGAGT  
TAGTGATAAAAAATCCTTGGGGCTTCAGGACTCCAAGGCCAGAGATTTTTTTAAAAAAC  
CAAACCCAGG

Sequence 1158

CCCGTTGTGGCGGCCGNTNACTTTANNTAAAGACGGATTTGCCCATGTTGGCCAGGCTG  
GTCTCGAACTCTGACTTCAGGTGATCCGCCCCCCTCAGTCTCCCAAAGTGTGGGATTAC  
AGGCATGAGCCACCATGTCCCGCCTGGTTTGTTTTTTAAAAAATCTCTGGCCTTGGAGTC  
TGAAGCCCCAAGGATTTTATCACTAACTCCCTGAGTGAATTTTGGCAAATCAGATGACCC  
ATAGGTTTAATTTTGCCACCTATGAAATGAAGGCACTGGGCTAGATTAGTGGCTTTCAAG  
AGTTTTTGGACTATGAGCCAAAGTAACAAATACAGGNTTACACTGGGGTATCTATATATG  
CAAAATACACAAAAGCTTCATGAAACAACACTTTTTTTAAAGCTAGAATGAACCTATTAG  
GTAAATAAACATATTTTACTATTCTATTTTCATCATTAAAAAATGTTAATGGCAACAC  
TTTGGC

Sequence 1159

AGCCACGCTGAAAACCTCACGAGCAAGAAGGAAGTGCTTATTTCTATCTGCCTTATTTTTG  
TAGTTGTTACGCAGCAATATTATGGCAAGAGTTAACAGATATAACTTAAATTTCAAAA  
AATAGGGAATTTAATAAATTGCAACACATCACATAGTATTAAACCGTCATTATTATTAAT  
GACAATGATCTATATTTATATATACATGGGATATGTCTAAAAACATTAACAAAAAAGTGG  
CGGGGCATGGTGGCACATGCCTGTAATCCCAGCACTTTGGGAGGCCAAGGTGAGTAAGAT  
CGCTTGAGCTCANGAGTTCCGAGACCAACCGTGGGCAACATAAGTAAGGACTTTGTCTCT  
ACAANAAATAACAANAATTAAGCCAGGCATCCTTGGCATGTGCCTGTGGTCCCAGCTACT  
TGGGAAGCCTTG

Sequence 1160

CCGGGCAGGTACATTATCCAAGAGAGAACACAAGAGTTTAACAGAAGTGACAGGAGACTG  
CAAAAACCTAGAAAGGAAAAGAAAAACAGCCAGCCTGTGTGACCAANACCAGCTGGAATC  
AGGAGTGACTCTATAATACAGGAGAAAGTAAGCAATGGCTTTTCTGTGGTCCATTTTCTC  
ACTGGGGAATCATACAATCTAGATCTTGGGAGAGCATTTTGACCCTCTCAATCCCTGAAT  
CTAGCATAGGGAGCAGTCAGGGGACTGAGACAAGGAAGTGTCAAGGGAGGGAAAAATGCT  
TTAGTTCACACCCCTTCCCTGAAGCCTAAGCAGCTATAGCAAGATGCCATTGTTAATCCT  
A

Table 2

## Sequence 1161

CCGGGCAGGTACCTCTGCTGCATCAACAGGGTGCAGTGGAAGCTAAGCCTCCACTCCCAC  
TTAATATCAATGAGGTGGAATGAGGTGCTCTGAAGACATACTGGTGACACTCAGCTTCTT  
CTTTTCCACTGTCATGGTGTCACTGGGGCCCAGAAGGGAGCTGAACTTCTATCACCATCG  
TGCAGTAACAAAGTTGTGGGACTCAGCCCTCCTCCTTCTCCCAGGTGGCAGTGAAGA  
CCATCGGGAAAGTGACCTTCTACCTCAACTCAAGACAATCAAGACAATGAAAGCAAGTTG  
GTGCCCTGCTTTTGCTAGGAAGGGTCAGCAGCACCAAGTGGGGAGCTGAATGTTCACCCC  
ACTGATTTGCAATGAGGCACTATGAGTAAAGTGACCCATTTTTATTGGTGTATTATTGG  
TGGTGCCCAACAGAAAGTTAAACATACACACCGATCTTAGCCTTCATAAAAACTGACACT  
TCAAAAGATACCACACTCAAGAGAAAAATCATTATGTTGNGGGATTTANTTTGACAATTGG  
ATGTTTAAAGGCCAGTCATTGAAAAATGCTTTNAAACAAAGTAATTTACNAAANTTCTTT  
TTTGGNTATAGGATNAAAAAAAAGGGAAA

## Sequence 1162

ATCAGGGGATAACGCANGGGAAAGNAACATGTGAGCNAAAGGCCAGTCAAAAGGCCAGGA  
ACCGTTAAAAAGGCCGCGTTTGCTTGCCGTTTCTTTCCATTAGGCTTCCCGCCCCCCT  
GACGAGGCATCCACAANANAAATCGGACGCTCAAAGTCATGAGGTGGCTGAAAACCCGG  
ACAGGGAACTTATTANAAGATTACCANGGGCCGTTTCCCCCTGGGAAAGCCTTCCCTTNG  
TTGCCGCTCTTCCCTGTTTNCGAACCCCTTGCCCGCTTACCCGGNAATAACCCTGGTT  
CCCGGCCCTTTTCTTCCCTTTTTCNGGGAAAAGCNGGTGGGGCCGCT

## Sequence 1163

AGGTACACATCTAATGACATCTTACTTAATACAGGGTTTTTTCTTTTGTAGAGGGTCTT  
GCTCTGTTGCCCTGGCTGCAATCATGGCTCACTGCAGCCTCAACCTCCTGGGCTT  
AAGCGATCCTCCACCTNAGCCTCCTCAGTAGCATGGGACCACAGGTGTGCAGCACCACA  
CCCAGCTAATTTTTCTATTTTTGTAGAGATGAGGTTTTGCTATGTTGCCACACTGGTA  
ATTTTGGTTCTTTTATGGCAATTATTCCTTCTTTACCTCCCTGAGGATCTTAAACATAC  
ACTTTAAAATTGTTCTATTATTACACCTATAGACTAAGGATTCACCTGAGTATCAATTA  
TTCCCACTCCTGCAAAAAAGAAAACATACTATAAATACTGTTTCATGATTCCCATTTTTT  
CCCCTAAGCAACAAAACCTTANGAGATATTTCTGTATCANAACCTGCCCCG

## Sequence 1164

CCGGGCAGGTACAGAGGACAAGCCCCACTTTATTCGGAGTTAACCTATGGTGCAGTGGCC  
TTAGAAAACTTAAAGAGTAAAAAGCTACCATAAAAAATGCTGGTTATATGTATGACCAGA  
CGGTCAACTCCTCCTTCTTCTCTCTTTGCTATAACAGCACCTGTTGGCTTCTAAGTGC  
ACAGAGTTCTCACAACAATGTGCCAAAACCGCCACCCTTCCCATCCTGGCACCACCTNC  
CCCCACCCAGGAGACCTGCATATCAGATATTACTTCTGCTGTCTATGACCACACCACC  
TTGGCAGTTAACATCAAAGCAAACACATGGGGAGAACAGAAGGCACTGGAGCAGCGGGG  
GAAGAACAAGCATAGGTAATGTTTCATAAACATTTTTCTGGTGCCAGGTGCAAAAACCT  
TGGAACCTTCACATGTATTTAGCTGATCATCTAAGGACCCACCTTCTTCTTCCAAGATA  
AGTGAGCTGAANGCCCTTCCCTGCCTCCACTCCAGTGCTTCTGTACCTCGGGCCG

## Sequence 1165

GGGGGACCTCCTCGTCCAAAGAAGGGAAGACCTTGTCGGCACCATGAGAGGCGTGTCT  
CTTCTGGCTGCCGCTCGAGCACCGAGAGCTCCAGCTCGTCTACTGGCTGTGAGGGTTGGG  
CCAGGTCCATGTGCCGGCAGGGAAAGTCTCCCCGCGT

## Sequence 1166

ACTTTTGGNAAATTGCNGCTCCCCGCGGTGGTTGCCGCCGGGCTNGTNCAAATTTTTTC  
TGGACAATCTGTGCTGTGATTTTGGAAATTGTGTGTGAAAGAGGAGAGTAGCTGGGCGT  
GGTGGCTCGCGCTGTAATCCCAGCACTTTGGGAGGCCGAGGAGGGTGGATCATGAGGTC  
AGTTCAAGACCAGCCTGGCCAAGATGGTGAAACCCTGTCTCTACTAAAAATAAAAAAAT  
AGCCAGGCATGGTGGTGGGTGCCTGTAATCCCAGCTACTCNGGAGGCTAAGGCAGAGAAT  
TGCTTGAACCCGGGAGGCAGAGGTTGGAGTGAGTTGAGATCACGCCACTGCACCTCAGCC

Table 2

TGGGCAACANÁGTGAGACTCTGTCTCAAAAATAAAAACAAACAAACAAAAAGAAGAGAG  
TGAAAGAATTTGAGTCCTTGACACAAGACAATAACTGTTTTTATGTTTAACTTTTTAGT  
TTCTTATGTTTAAACCTTTTAAATGTTTAAACCTTTCAAAAAGGTTTGAAATTAATTTT  
TCATCTTTTATTGCCCTTGCCANTTTATTAATTAAGCCAAAAANTTTCCCTTGGANTAT  
GGTCNAAAAGGGCCACCAAAAAANTTAAATTTTTTATAGGCTTTAAAGGTACCCNTCNGG  
GCCCCGNTTCTAANAAGTGTGGGATCCCCCGGGCCTTNNNANNGNAANTTTGATTAT  
CAAAGCCTTTTTCTGANTACCCGTCTNACCCTTCNAAGGGGGGGGGGCC

Sequence 1167

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACAAAATTTGGGGGCC  
CACCTCACATCAGGCAAGGGCAGCTCATTTAACTCTATTTTTATCTCTCTACACAATA  
TACCAAGCTGTCTACAAGGATTGAGTGAATCCAGATTTCAAGGTAAAAAGAAAGACTAAC  
TGCCACATTAAGCCAAATCTAGAAGCATGAAAAAGATCTACCCCTACAGTAATTAATCTG  
AATCTTGGGCCCTTCAAACCTCCAAAATTTAGGCCCAATATACTAGAACTTTAGGCGTTCC  
TCTTTGGAAAAAGAAACCAGAACTAGATACTTGTAGCCACACACAACCAACCTGAAGACT  
CTTGAATCAGGCATGGCTCTCTCGGTAATAATTAAGAACAGGCTCAGCCAGGCGCAGTG  
GCTCATGCCTGTAATCCAGCACTTTGGGAGACCGAGGCGGGCGGATCATGAAGTCAGAA  
GATCGAGACCATCCTGGCCAACATGGTGAACCCCCATTTCTACTAAAAATACCAAAATTA  
GCTGGGTGTGGTGGCGTGTGCCTGTAATCCAGCTACTTCGGGACGCTGANGCACCAGAGA  
ATCACTTGAACCCAGGAGGTGGAGTTTTGCAGTGAGCCCGAGATTGCGCCACTGGCACTC  
CAACCTGGGTGACAGAAGAANGACTTCCATTTNAAAAAAGNAAAAGAACAGGGCTCAACT  
TANTTCAATTCCAGGAATTTTCCCAAAAAAAAAAAAAAAAAAAAA

Sequence 1168

AGGTACCAGCAAGCCCTGGGGGCCGAGAGTTCTGCCTGGTCCCACCTGATCACTCTGTCA  
TGACCTCAGTTCATGTGAACCTTTCGCCCACCTTCGTCTCAAAACCCAGCCCTGAGACCC  
CCATGCTGGGATGCGTGCAGGGACCCCGTGCAGGCTTCCAGAGCAGGGGAGCACTCAAC  
TATGCAGAACATGTCAACTCCACAGATGCACAGCAGGTGATGACTGAAATGACTTCCCAA  
GGGAAGTGTCTTGTATCCTTTTTTAAAAACATTAAATGTCAGAAAGACGATATGAGAGC  
TCAGACTGCGCCACGTTGGGAAGTGAAGAGAGAGAGGCCAGTACCTGCCCG

Sequence 1169

CCGGGCAGGTACTGGCATTCTAAATGCAAGGATAAGCTTAAAGAGATTATTTGAATCTAA  
GAGTGTGGGAGGGACATTGGCTCTCACGGTCCAGCAGGTGTGAGTCGGATCTAGCTAACT  
CCCTGAGGATCAAGGATTCAATTGCCATGCTGAACGGGCACCCCTGATTCCTACAAGTTC  
AACTCTTTATGAGACTTCTCCCATTTACCTTCTCTGGACCTCGTTAGCACTACCCTATG  
TGAGGGAATCATGGGGACAGAAGGAAGCCTCCTCGCCCTGCCACTTCCAGCAGCCCTGC  
CCTGAAGGCACTCTCCCCACACTTTGGTTCTTTAAGGGAGCCCCACATNATGCAAAGCGC  
TGAACCACAAGCTCGCTCGTTACCTTGGCATCACCAGCACTGACCAAGAAAAAGC

Sequence 1170

GGGGGACCTCCTCGTCCAAAGAAGGGAAGACCTTGTGGCACCATTGAGAGGCGTGTCT  
CTTCTGGCTGCCGCTCGAGCACCGAGAGCTCCAGCTCGTCTACTGGCTGTGAGGGTTGGG  
CCAGGTCCATGTGCCGGCAGGGAAAGTCTCCCCGCGTACCTGCCCG

Sequence 1171

GGTGTGGTGGCTTATGGAGTCCCTAACGTTTGACAAAATGGTTGCTACATTCCACACTC  
CCATGTGCCCTGAGCAACCTCCAGGGAACTTCAGATACCGTGGGGCTTGGCCTGCCAGC  
TGAGCTGACCCAGCGATCCTTTCTACCACAGCTTTGATCTTCACTGGGTGGGAGCCTGT  
CTGAATCTAAACATCTGCCTCTCTACTGCCCACCCCTTCGGCATTTCTAGCTCTCCCTG  
AAAGGTGCAAACATGCATGCAGTACTCAAACAGAATATTTATCCTTAACTCCCTGTCCC  
TCACAATTTCTTTTAAAAACAATCCACTATTGTCTACCCCCGCCCCCGCATCACCTTTCA  
TCCAGGTGCCCATTCCTTCTCTCTAGTCTGCAATACCTAAGCATCGATCTGCCTTTAG  
CACATCCATCCCCGCTTATTCTCCACGCAGGAGCTGAGTGACCTGCACAAAATCCCCCTG

Table 2

CTAAATACGGNACCT

Sequence 1172

AGGTACTTTTCACATGCTATACCACATTTAATTAATTCTAACAACAGCACTGGAAAAATAAG  
TATAATTATGCTCTTTAGTTCTTTCTAGACAGAAAGCTTTTCATGGGGATGAAAGACTGTT  
CCTTAGCTCAGAGTAGGGAATCAAAGTAGGCGGGGCTTAGTTCAGAGTGGGCGGGGCTTA  
GCTCAGAATAGGCCATCAATTTGTAGAATTGAAGTGTGAACCTCTGAGGATGAAGAAACAG  
GGCTGCAGGGGTGTGTAACCTGCACCAAGTCACCCTACTTTACATTGCGCCACACCGCCC  
AGCTAAGTCTTCGAAATGTTCAAGGTGCTTGAGCACTGATTCTTTGCCTGTTCAATG  
TTTGAATTCCACTGTCACTGGCTTTTCTTTTTCTCGTAATGAAGCAAAACCTGGTGGG  
TTAATTAATCCTTCTTGATGCTGGGCAGCAGTAATAGGATCAAGAAGAAAGCCTTTCTCC  
TCCTGTGCTCCCAAGGATGCCAGCGGGGAGACTGTGANGAGATNGAACACAGCCTTCAC  
TCTGTTAATTTGTTCAAGAGCAAAATCANCATGGAGATCTGTCTCTCCANGGCTCTGGC  
TTCCTCAAGGACAGCTGGCCACCCAGGTNCTATCCATCTTGTAAGGTCCACCGCCGTACC  
CTTGCCCCGGG

Sequence 1173

CGAGGTACATTTGGAGCTTTATTTCCACTGGCAATGCAGAAACACCCAGCAAAAATGTGA  
GAGGAGTTGGTGGGGCTTCCTAAGAGGACAAGAAGTGAACCTGGCAGGAGATCCATGGG  
AGCTCCTGGGACTAGAGTTCTGGGAAGTTGAAAGAAATTCAGAAAAGAGATATGTAATT  
TCCAGACTGGGAGAGGAGCCTTCCCTGCAATTTTTTTGTGGGGAGGAGAAGGGCATGGC  
TCACGTGTTGTCTGAGCTTTGTTGGCCCCCACTGCAGGCAGAGAACCAGGAGCAGGGT  
GGCAGGGCTGGCCCTGAACAGGAGCTGGAGCAAAAGCGCATGCTGGAGAAAACAGAAGGCCA  
ATGTGTCCCAANAAAAAGTGGTCCCCGCGTACCTGCCCN

Sequence 1174

CCGGGCAGGTACCCAAATCTTAGCCCAACCCCTGGTATAGAGTAGTTCCTGGGCAGGTCA  
TTGAAGAGGGACATTTGTGCTGGAGATGGGAATGTGTAGGACTTGTAGGTGGGAATGTC  
AGGTTGTCCAGGGTCACTTTAATGGAAGGGGGAGAAAAGGAAGAGTTTGAGGCCAGACTT  
GGAGGCCCTTGAGAATGTGGTAAGGAGAAAGATTAGACTTGATTATGAACACACTGGAG  
AATGACTTGTGTTTTTGTGAGCAGGGGAGTGATATGCTTAGATACTTGTTTGGACAACAG  
AAAAAATGGAGCCAGAGGAACTAATATCTTTGTGTATATGAACCTATTCAATTTATTCAA  
AATTTATTGCAGACCAACCAGGCTTTTTTTTTTGTGAGACTGAATCTTGCTCTGTACCCAG  
GCTAGAGTGCAATGGCATGATCTCAGCTCACTGCAACCTCCGCCTCTGGGCTCAAGCAA  
TTCTCCTGCCTCATCTTCTTGAACAGCTTGGATTACAGGCATTGCCACCACATTCCGCT  
AATTTTTGTATTTTAAAGCAAAAATGGGGG

Sequence 1175

AGGTACCCAGCTGGGCTCTGGAGGGAAATCCGGAGGTAGATTACAGCTTCTGTCTTGCCG  
GGTGGCAAACCGGGGCCCTTCCATCTGGAGCTCCTAAATAATTCTGTTAAATAATTACTGC  
TAGCCCAAGGGCTCACGCCTTTAGTCCCAGCACTTTGGGAGGCCGAGGATAGTGGATTGC  
TTGAGCCCAGGAGTTTGAGACCAGCCTGGGCAATATGGCAAAATCCTGTCCCTACAAAGA  
TGTTAATAAAAAATTAGCTAGGAGTGGTGGTGCAACCTGTAATCCCAGCTATCTTGAG  
GCTGACTTGGGAGGATCGCTTGAGGCTGAGAGGCAGAGGTTGCAGTCAGCAAGGATCATG  
CCTGCACTCCAGCCTGCGCAACAGAGCAAGGCCAGTCTCAAAAATAAATTAATTTTA  
AAAAGGAGGGTGGGGCTGCCTTCCCACAGGCCTCAGCTGCTTCTGTAGAGAGCACCTGT  
TCAAATGCAGTGGCCTNTAAGCTACCCCNAAAGAAAGCCCATCTTCANAGAGCTCACATGA  
TGGGAGGTTCCCGAGTTNAAAGCGNACCACCTTGCAAAGCCTTNTGNGGCACCTTCCTTN  
CCCTTATACCNNAGAAAAAATTAAGGAGTAGGGCCTTCTNGGGCCCTTTNTTACTTNA  
AGNGNCNNTTTTNNAAANAAATCCCCCCTTTT

Sequence 1176

AGGTACGCGGGATTTCTGGAATTTCCGTTTACTCTTTGCAGACTTTGGTTGACCTTGGG  
GAGCAAACCGAGGACCGCGAAACCACAGATCAAGGGGGAGCTCGTGTATAGCAGCTCTA

Table 2

ACTTAGTGCTTACAACATGCAGGCACTGTTCTAGTCATTTTGCGTATATTCATGAATCCT  
CCCACAACCACCGTGTTACAGAGGAAGCGGAGGCAGAGGGAGGTTTAGTGAGTTGCTGGA  
GGCAGCCCAGCTGGTGAGCTGAGGCTCAGCCGCACGACCGTGCTCTGGCCCCAAAACACT  
CCTCGGTAACCCCCATCCTGCCACACAAATGGCCCCGGAACACAGCGGCTGCTTTGAGT  
CAGTTTCTCTCTCGATGACTTTTCCACGTTGGCTTCGATCTGGGAGTTCGGT

Sequence 1177

CCGGGCAGGTACGCGGGGAGACTTTCCCTGCCGGCACATGGACCTGGCCCAACCCTCACA  
GCCAGTAGACGAGCTGGAGCTCTCGGTGCTCGAGCGGCAGCCGGAAGAGAACACGCCTCT  
CAATGGTGCCGACAAGGTCTTCCCTTCTTTGGACGAGGAGGTCCCCC

Sequence 1178

GGGGGACCTCCTCGTCCAAAGAAGGGAAGACCTTGTCGGCACCATTGAGAGGCGTGTTCT  
CTTCTGGCTGCCGCTCGAGCACCGAGAGCTCCAGCTCGTCTACTGGCTGTGAGGGTTGGG  
CCAGGTCCATGTGCCGGCAGGGAAAGTCTCCCCGCGTACCTGCCCG

Sequence 1179

AGGTACTGACTTTTGGAGTTACTTAAGAACCACAGTTCCTAAACATTTTATTTGGGAGC  
TCAACTTCTGGCTTCCTACTTACCAAGAGGCAGTAAGTTATAACCTCTGGCCTTTGTCTT  
TACATTTTCAACTTTCTGGATCCCTAACCTCTGGTCCCAAGTTACTACGCTTGCCATAT  
CCACTAACCACCTCACTAGGTCACAAAGTTGATGGCTCTGGCTTGACCCAGTGAATGAGAA  
GTGTCCTAGATGTTTTTTTTTTTTTTTCGCAAACTTCATAGGCACAGTTGCCTGTTT  
AATTTTTCTTCAGCCCTTCCCTTAGAGGAGGGAGCCCTAAGTTACCTTTCAAGGTTGGG  
GGTTAGGAATCTATACTAGTCTAGAGATTTCTCACCAGGGAATTCCTCTATCT  
AAAAGAGGAACCTCAGGTCTCAACCCTGCCAGTCACACCCAAT

Sequence 1180

AGGTACGCGGGGAGCTCATTCCACTGAAGGTGATTGTGACAGATGAGTTTCAATAAATAA  
GCCCCCTCACATGACATACATGTGAAAAATAACTTTTGGTTTATAATAAATGCTTGTTT  
TACACATTCTTATCCTATTTGGTTATAATATAAATTCTTAAATGTAACAATTATACTTCC  
AGAATGTGTTATTTGAATTACTTGGTTATTTTATCTTTTTTATGAGAATTTGTTCCCTT  
CTCATTTTCTAACCACATTTAAATTGATACTGTTTGAGTATAAACTTAGTATTTCCCTTC  
ATGCTATAAATAAGTTACTATCTTTTTTTTTTTAACTTTCCATTTGTTCTTTTTGTTG  
TAGACAGGGTCTTGCTCTGTCATTACGGCTGGAGTGCAGTG

Sequence 1181

CCGCGGTGGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGAG  
ACAGTGTCTCGCTCTTGGGGCCAGGCTGGAGTGCAGTGGTGCTACTGCGGCTCACTGCA  
ACCTNTGCCCTCCTGGGTTCAAGCGATTCTCCTGCTTCAGCCTCCCAAGTAGCTGGGATTA  
CAGGTGCTCATCACCACNCCCATCTAATTTTCTATTTTAAATAGANACCAGGTTTCATC  
ATGTTGGCCAGGCTCTTCTCTCTACTGNGATAATTTGATTAGCTCCTTTATGTTCCAGCT  
TGAACGTATGTATGGTAGGTTAATCCTCCCAAATCACTGGGGAAGCCATTTATCATTGAA  
ATTTTACAAATGGGGAAGCTGAGGCGAAGTGATTTTCTCAATGTCNCACAGAGAAAAAGT  
AGTTTCAGTAGGACTCAAACCAGGGCTTTGAGTCAAGTTAACGACTTTTCCACCATTTT  
ACAGCTGCCCTTCATGGGTAAAGCAACTTAGTTCTTTAAAGACACAGGACCAACATGCAG  
GAGACTCANACAGTTGTAGGTGCCTGAGAGTAACAGCAGCAAGCCAGCAACTNTTCAAA  
AGCAGTCGCTAATTAATAAGTGCAGGGCCCTTANAAGCCTCGCTTTCCCTNTTTTGAAN  
ACAGATGGCAACCGGCACCCTGGNCCTTTCTACCTAACTNCAGGNTGNTTTTTTCATT

Sequence 1182

GTGGCTAAGACTGGACTGTAGAACAGGGAGAGTATCTGGGGTTGTCCAGTGGGCTCAATA  
TAGTCACAGTCAGGGAATGTTCTCTGGCCGGAGGCAGGAGAGACATGGCAGAAGACTAGA  
GGCTGAGACTGCCCAACCCACCATTGCTGGAGGGGGCCACTTGGAAGCATGAGAAGGAA  
GGGGGACCCAGTCTACAGCTGCAAGGAATAATTGAGCCAAGTGTGCATAAGCTTGAAGG  
CCTCCAGGGTGAACCCAGCACCTCAGACACTGGCCCCATGAGACTGAGCAGAGGACCCAG

Table 2

CTGGGCCCTGGCTGAACTCAAGCATCTGACTTAGAGAATTNGTGAGATAATCAGTGGTATT  
TAAACTGCCAAGCCTGTGGTGATTTGTTGTCATGGAAGCAATAGAAAATAATACAACAG  
GGCTGGGCGCGCCTGTNATCCTAGCACTTTGGGAGGTGNGCGNGATCACCTTATGTCAGG  
AGTTCAAGATCAGCCTGGCCAACATGGTGAAACCTAGTCTCTACTAAAAATACAA

Sequence 1183

AGGTACTTTTTTTTTTTTTTTTTTTTTTTTGTGAGAGATGGAGTCTTGGTATGTTGCCAG  
GCTGGCCTCANACTCCTGGGTTTAAATGACCCTCCCTCCACGGCCCTCTGAATAGCTGGG  
ACTACAAGCACACACCACCATGCCCTGCTCCAAAATTCTTTGATCTGAATTTCCAAGAT  
AGGTAAAGTTTTGCTCTGGAATTTCTCTATATTATCACCATGTGAAGAGATAATTCCC  
TGACTCCTCGCCTCCCAAAAAGGACATTTGAACCAAGTGAAGCATCCTCGTTTATTAACC  
CTATTTTCCATGGCTNTTTCACANAGCTATTTTTTTTTTTTTTGANACGGAGTCTCGC  
TNTGTTGCCAGGCTGGAGTGCAGTGGCNCCTCTTAGCTCACTGCAAGCTCCGCCCTCC

Sequence 1184

ACATACAAACCCCTTGCTTCTGTTTCATTCTCCCTCACAGCAGCCAAAGTGGGCAAACC  
AGAAAATGGACTGGCCAGCCTTACCAGTGTGCC.TGTCTGACCAGCGGGCGACCTGGTCAC  
TGCCCCAGAGGGTCAAGGGAAACCTATTCTCCTTGCCACATTCTTGAGATGGTGATCA  
CAGAGGACACTCAGTTGCCACATCAGGACTTTGATATTGAGATGGAAAAGGCTTATATGT  
TGATTTGAGTTAGTAATTAGGGCTTTTAACTGCTCTTGTCGACATAAACACATACACTA  
TTATTCAGT

Sequence 1185

CCGGGCAGGTACAAAAGCTTGTTTGGGTGGCTTCAGTGTGTTGGGAGTGTATATGAAGTCC  
CTACTGCCAGAGGCCCATANACCATTTTGAAGAGGCTTGAGCAAATCTTAAAGCTTAA  
ATATATGTTCTGTCAGACTGAGGCAAAAGAATCGCTTGAACCCGGGATGCGGAGGTTGCA  
GTGAGACGAGTATCGCGGCATTGCACTTCAGCCTGGGCAAGAGGGCAAGACTATGTCTTC  
AAAAAAAAAAGAAAATNACCAAACTTTTTGAAANCTGGGGCCGCAATGGCATGTGCCCT  
ATCGNTCCCACTTACTCAGGGAGGGNTGAAAGTGGGGAAGGATTATTTTGCNCCCCAA  
NAAAATTTTGNAGGCCACCAGGTNGNGGGTATTAATCAATCTTGGNCAAAATAANCCCA  
CTTGCAACTTACCAAAAACCTGG

Sequence 1186

GCTCCACCGCGGTGGCGGCCGCGCGGGCAGGTACTGAGGCTGGTGCACTCCACATTCCCA  
CCCACATCCTGCCACATGTTGGTGAGAGTCTGGGGAGCCCCAGCCTACTGGCACGCTTG  
TTCCCTCTGAATTTCTGGAGCTTATTTATTTTACCACCTCCCTCTCTGCTTCTGTGC  
CATTCTTCTGCTCCTTTTAGGTAACAGCCAGAGAAAGGATGCTGATAGGATTTTTTC  
TGAAGAAAGGTGTTTTGATCAAGAGAGTTAAATCACAGAATGAAGTTTGGCTTGTTAT  
ACCTTTAAATTCTGTGGGCTCATGAAAGCCATGATAACCAAGGTTAGTTGTGGCATGGTT  
NGTTCAAAGCCAGTGGGCCCTTTTCTAAAAGCCTAAAGTNCATTCAATTTCTTCAAGG  
AGAATCATTGTNGACTGNCCTTAAAGCCTTCAATNATTTAAAAAAGGCCTTAAGTTTTTT  
CTTAGGGCTTTTCAACCTGGTGGATTTTCAAAAATTTTCAAAAACCAAAGCCCTTAA  
TGGNTAANCTGGGCCATTTTTGGCTTCCTTAAAAANGAACCCCAATTTTTTCTTAAAA  
ATACCCCTTTTTGGGGNAATTTTAAATAAATTNAATCCTCCCCAACCCAAAGGGCCATTG  
GGCCNANTTCNTTTGGGGAATAAATTTTTTACCNTTATTTACNCCNAGGGGATTTTT  
GGGGGGGGTAAA

Sequence 1187

CCGGGCAGGTACTCTACTAGAGATTACACATTATAGAATAGTGCAGAAAGCAAGCCACAT  
GAAAGGGTCAATTTAATGTCGCATCCTGCAGAGGTGAGGAGTTGATCTCCAATATTCTC  
ATTGGTTACACAATCACATTGAGGTATTTAAATCCTGGCAGGTGGGAGCCTTTGCTTCCT  
TTGCTCAACGGTGAATTCACATGGTGGTGTGGTAGGCAGAGGTTGCACGGCATTCTCTAA  
TAGCTACAACCTACCTAGTCTTATCCAGTATAGGTATCAGGTAAGTGATTACACATGTTT  
AGATCATCAATTTAACAGTAATCAAAGAGTCTTTTAACTTANAACCTCAGGGAAGTCAGG

Table 2

TCTGTCTTCTCAAGCTGAGAAGAACCAAAGCCATGGTATAGACATAACCATACACAGGTA  
ATGTAAAACTATTAAGCT

Sequence 1188

GACTATAAGTATACCAAGGCGTTTTTCCCCTGGAAGCTTCNCTCCGTGCCGCCTCTCCT  
GGTCCCCGACCCTTGCCCGNTTTACNCGGGATTACCTTGCCCGCCCTTTCTTCCCTTTC  
GGGGAAAGCGTTGGCCGCCTTTTCTCATTAGGCTTCACCGCTTGGTNTGGTTATTCTTC  
AANATTTCCGGNTGTTNANGGTTCCGTTTCCGCNTTCCCCAAANC

Sequence 1189

CACCCGCGGTGGCGGCCCGCCNNGGCAGGTTCTCGGGAGGAAAAAAACCCTCCAATTAT  
ATCTGGGGGTGCNGATACANAAAAATGTTATCTGGTGTGACTCCTGTGAGGCTTTTGCCTG  
GTTTTTGAAATGCTCTNATCCANTCATTGGACAGGTTCCCTGGAANAGCAGGNTTGGTN  
CTTGATCACAGCTGAAAAGGTNGTGGAAGTATTATAGGGGCTTGNNTCAGAGATACAC  
AAGCTAAANACTTTCANCTTCTGTTTTCTGGGNTTCAACGGGCATTTATAT

Sequence 1190

GAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGACAAGTGAAGATCACTGTAT  
TCAATACTCTAATCCCTGATATATCATGAATGCTGAAAGAGGATTTAGACTCTACTACAC  
AGCCGCCCTGAAAGAGCTGCAGGAGGCACAGGGAATTATATTAACATAGTGGATTGCACG  
TTAGGGACAGAAATGGACCAAGGAGCACATGAGAAGTCCACATTGATAGAGGTGCCTGGC  
ATGGGCTCTCCTTCTCTGCCAGATGGTGTGGTGTGACCTGATGGGTGGCACCTTCTTG  
ACAAGGATCCTTGCTTTAGATATTTGGAATATTTTATGTTATCAAGCTATTTAGAAATTT  
TAAGTCACTGCAAAAGTGCTCATTCCAAATTTCTGTTTCTTGCCTTTGTCTTGAATCCATA  
TCTGAATATTTAGGAAGATTTGGTATTGGTATAGAGAGGTATCAATTTGGCAAAGATCCT  
TCTTTGCCAAATTCCTGGAAGTGGAATTGCTGGTGTCAAGGACAGGTGCACCTGAAAATG  
TNGGACAGGTAATGCCAGATTTCCCCACCCCTTTTCTAATAACAGTGAATGACCCTGA  
GAAAGTAATTGNNTCCCTTTAGAAATTTCAATT

Sequence 1191

AGGTAAGTACACTACCCCTTGCTGTGTGCGACCAAAATGTTTCCAGACGTGTCACCCCAGC  
TGAGAACCACTGATTTAGAAGAAGGGAATCAGGGCGGTGATATGACTGGAAATCATGTT  
TTTTGAAAAATAGTTGAGGGAAGTGGGTGTTTAAATTTGAAGAAGACTAAATATAGTGA  
TATCATTTCAATTTGAAAGGTGGTGTGGCCTGTTCTCCATCACTCTGGAGGAAGAA  
ACAGAGGCACTGAGTGAAAGTTCTAGGAGATTAGATTGACTCAAAATACTTTGGAGAA  
ACTTTCCAACAGAGCTCGCGGAGACTGGCCTGCAATGCATGTGCAAGCAGGGCCTGGGT  
AAACACACAGGGGGTGGGAAAAGTTTCTAGTACCTCGGC

Sequence 1192

CCGCGGTGGCGGCCGAGGTACAACCTTTGGCTCTGGGTAGGGGAAAGGAAAACAGCTTCCT  
AGAGAAATGTTAACCACAAGCTAGCCCTCATGAGAGATTTAGCTAGGATGGATGCTATC  
TGTGTAGTGCAAAAAAAAAAAAAAAAAATCCATAGCCAGATTTTGTGCTTTAATGTGGACCT  
AGGTCAATAGTGAAGTCAAGCCAGAGCAGTGGCTCACCCCTGTAATCCCAGCACTTTG  
GGAGGCCGAAGGAGGTGGATCGCTTGAGGTGAGGATTCGAGACCAGCCTGGCCAACATG  
GTGAAACCCTATATCTACTAAAAATACAAAAATGAGCCTANAGTGGTGGTGGGTGCCTGT  
ATTCCCAGCTACTTTGGGAGGCTGAGGCACAAGAATTGCTTGAACCCAGGAGGCGGAGGTT  
GCAGTGAGCCAAAATCGCACCCTGCATTCTAGCCTGGGCAACAGAGTGAGACACCATCT  
CAAAAATAATAATAATTAATAAAGTGAAGTGCAGGGGACTGGGAAGAGGAAACACAAAA  
TCTTTACTGGGGAAT

Sequence 1193

AGGTACAAATCAAAGATTTGAAATGTTGTGCCGCTCATCAGCTTCACATTCATCTAGATA  
CCTCTCTCGTTAAGACATCTGTCCAAGTAGTAAGGAGGAAATGCTTTAAAACTTGCTCA  
TTATTAGCCACCTTTAGTCTACCCAGCCAGAATTTCTCCTGAACTGAACGAAGTGCTT  
TTTATTCTGTATCGTTTCGAAATTGCTTATTTAAAAATGAAAAACCACAACAAAGCTGCA

Table 2

AATAATAATATGACATAAAATTAGTTAAGAAAAACAGGTGATGAAAACCAAAATAAAAC  
AAGATTTAAATTTCTATAACCCTGCACCATTTCTTTTGCTACTAAACTTAATTTGAATA  
CTAAGCAATATCGTGTGCCACTCTCTGTATCTAGTCTTCTCTCACTCTCTACAAGCCAAA  
TTTCTTTAACTAGCTCTTACTCAAAAAACAATCAATTATTTCTTGCTCATCTTTCTCCAN  
ACTATTATTAATGAGTTGGGNATAAAAAAAGCCTGGAAGCTGGATATTCTCTANGNG  
NGCCACAATTTTTTTCTTCCATTATAAACCACANGGCTCANTACCAGACTNACTCTTT  
AAACCTGGTCCCCAACTTCCCACCTTTTCTTTGGNTTTTCAANTCTCTTAGGTAACAA  
TTNTTCCCCCTCNANGCTNTTACTNGGAATTNCCATTACCNANTTTTGGAACNACCG  
GGAATTTA

Sequence 1194

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACAAAAACGTGAATTATTTG  
AAGCAGCAGCTAGAAATAATCTTTTCCCTTCGAGCCCCCATGACCCACTGATTCTCTCTC  
TTGTATCTTGTGTTGCAGTGACTCAACAAATACTCACTGGGCACTGACCACATGCCTCTC  
CCAGAGCATAGGCTGCATCCTACCCTATGTACAGTTATAACCCATCCTGGCTGTGAAGC  
CCCCTGAGGCCACTCACCTCTGCCTGCCCTCTACAGTGCTTGCCACGGCTATACCGATGT  
TGGTTGCAGGAAGAACACAGAGAAGCATGGCCACCCTGATTTACCATGGCACATGTGGCAGG  
GTCTGGGCCCCTGAGATGTTCTTCTAGTTGGGGCTGGGAGAACGAGCGAGGGGCCAGGCC  
TCCTCTACACTGCTGCATCCATCAGCTCAACCGTTCAATTCATTCTTCAGTCTCATATTTA  
TATATACTTCATTCCATACATCCTTACAATAATCTGTCTTGGAGGGATTATTTTCTCA  
TTTTAGAAGTAAAGGGAACTGACAGAGGGTAAAAGTANTTCAAAGCCAAAAAACTAAGT  
TTATTATTTAATTTAACTAACATC

Sequence 1195

ACTTTTTTTTTTTTTTTTTTTTTTTTTTTNGNAAAGACAGGGTCTNATTCTGTTGCCAG  
GCTGACCTTAACTCCNGGGCTCAAGCGGTCTCTCCACTTTGGCTCCCACAGNGCTAGA  
ATTGCAGGCATGAGCCACTGTGCCAGCAGTTCTAACTGCTGACAATCTGATAAGNGCAA  
AAAGNAACTTTCTGCTCTGCTGCTTTTCATTNGCACTTCTNTACTTTCTATTAAAAATTGG  
CAACACCTGTNTGTTGATTAGCTGTTTGCCAATTGTTCTTCTTCAAGGACTCCACCCCC  
TTAGAAATGGAGCCTCTCCAGGTGTGTTTGATGAGTTGGGGTGGAGCCNAACTNTCCCC  
TCCCTTGTGTTGCTACTGCNCTTTTGTTCATACAGCCCTGNTNNATTGGACTGGGC  
NCAAAGNGCTCACAGAACAATGCCCCAAGCTGCCATTCCCC

Sequence 1196

GCAGACTACGCGGGAAGCAGTGGTAACAACGCAGACTACGCGGGAAGCAGTGGTAACAAC  
GCATACTACGCGGGAAGCAGTGGTAACAACGCAGACTACGCGGGAAGCANTGGTAACAAC  
GCATACTACGCGGGAAGCAGTGGTAACAACGCAGAGTACCT

Sequence 1197

CTGAACAGATGAGAAATTACAATGTTTGCAATTCATGACACCTGGAGGAAAAACAACTAC  
TTACTATTTTTAAACAAAAAGAAAGGCAGTTTGCTCATGTAAGAGGAAGAAACGAAGAGA  
GCCAACGAGAGTGAGCTTGAGCTCAAAGCAGATTAAATATGCTTTAATAGCTGCATAGAA  
ACCTGAAGCTCATAAATTTCTTTCATGTGCCTAGGAGGACAGGGAATTGCATATTTATG  
AGTTTCGTGTTGGGAAATCTGTAAGTGTATCTTCAACCATTATACAACACCTTTTGAAG  
TAGCCATTCCAAAGGACTGCCTGTTTGGACATTTAAAGGAAAATAACTTCAGGACAATCA  
TTCTACCCACATTTTCCACCCCATGNCCTACNNGGCCCTTTTCTTNACTTCAAAAGGT  
GCCCTATTTTGGACCATTACACNACCCCTTTTCTTGAAGTNAGTGGCNTTTTATAGG  
ANCAANTTCAAAAAGTNAGCCCTTNGCCAAATTTGGNTTCAANTNGAAAAGGGCTTACC  
CAGNCCCC

Sequence 1198

TGCGTATTGGGCGCTTCTTCCGCTTTNCTTNGGTCAACTGACTCGCTNCGCNTCGGTTT  
GTTTNGGGCTGGCNGGCGANCCGGGTATCAGCTCAACTCAAAGGNGGGTAAATACCGGT  
TATNCCACAAGAATTCAGGGGAATAACNCNCGGAAANAACATNTTNNACCAAANGC



Table 2

CCANCCAAAAAGGCCCGNAAANCCCNATAAAAGGGGCCCCCTTTNTTNNGGGTTTTTTT  
CACAAANNNGTCCNCGCCCCCTGNANNNGNNTTCAAAAAANNTGNCNCCNCTNANANN  
ANANGGGGGNGGNNAANCCCCCTGGGGTTTTTTAATTNNNCCCGGNGTTTTNTCCCT  
TGNNNANNATTTTTTNNNCCCCCTNCNCCCCCCCCCCCCCCCCCCCCCCCC

Sequence 1199

GGGGCGGCCCGCCCGGNCAGGTNCCCGGGGNGACTTTCCTGCGGGCACATGGACCTGGCC  
CAACCCTNACAGCCAGTAGACGAGCTGGAGCTCTCGGTGCTCGAGCGGCAGCCAGAAGAG  
AACACGCCTNTCAATGGTGCCGACAAGGTCTTCCCTTCTTTGGACGAGGAGGTCCCCC

Sequence 1200

AACCCTGTCTCTACTAAAAATACAAAAATTAGCCGGGCATGGTGGCTCACGCCTGTAGTC  
CCAAGTCTTGGGAGGTTGAGGCAAGAGAATCGCTTGAACCCAGGAGGTGGAGGTTGCAG  
TGAGCCGAGATCGTGCCACTGCACTCCAGCATGGGCGACAGAGCAAGACTCCATCTCATA  
ATNAAGANNGAAGGAAACAAAGAAAAAGCTTATATTGAACCTCTCTAAACAAAG  
AAAAANAAAAGANAGCCTNGATGCACACAAATCNAATTTGGCAAGGTGANTCAATTA  
AGGGATATTTTATTTGCATCACAAAATAATTCTTTTACTTCCCCCCCCAAAAAATTCA  
ATTAAAAAGG

Sequence 1201

AGGTACTCCAGAATTCTGACTTATGATATAAAAAATTTACTTTGNGCTTGTTGTGATTGA  
CAGTAAATTTTTAAAGGAATCTCAATTTGTGTTTTCTATTGTGTCATTTAATATTATG  
TAGTCATCTAAGATATACTAAAGGTGACCACAATTTAGAAATATGCATAGCANANATTAA  
TATGGAGTTGATTATCAACAGAAGCTAAATGAATAAATTATTGACTAATTTACACTAGCC  
TGCCCCGAATCCATTATTTTGAATCATCTGTGATACTTATTTCTTCCATGAGAAGAGG  
AATTTAGAAACTCTTATTCCATTTATTTGTAGTGGGTGAAAGTAACGCAAGCAATTTTC  
CATAAGCACAAATAGCTTTTCTTTTGAACACCGTAAATCTGAAATACTTCTGTCTGTCT  
TAACAACATTCCTGAATGATCATCTTAAGAGCTGGGTTTCCCATTTGCTTACTAGTCTG  
TAAGCACAGCAGTTGCTTCAGTATGTATGCTACTACTGCCTCGTTCCTATATGGGAGAAC  
CTCACCATCCCAAATAAGTCTGGGCAACCCTTGGGAGAAAAAAAATACCTTNTATAAT  
CTTTATAAACNAAAGCACTACATGGTATTCAGNTCAGAACCNAGATTTTTTNGGAAAAG

Sequence 1202

NCTTTCTGGTCTGGGGCAAATTACACTAATAACTACAATCCCCACCCTCCCCAACAAAT  
GAGTATGATAATATAATCATGCGTCTTGGAGGATTTCTTGGATAAGTAATTTAAACAGT  
CCAAATATAAAAAATGAATACTAAATCAATAGCATGCTTAATCCCCACTAGGTCCAACTC  
AGATTACTTCTTTTGGATGGAAGCTTCAGGCCTTTGTGGTGTCCCATATCTTAGCTTTTC  
AGAGAATTCTGTCTCACAGTGTTGTTTATAAGACAGTGATGCNAAGCAGAAAAANAATCA  
TCACAGTAAACATGGGAGNAGTATGCATGTTCCCGAATTTTCATTTGTCCCNTGTGCGCC  
TGGAAGCCCACTCTTACNAGTCTTTCTTGAAATAAGGTAAACTTGAATTAACCCCCGCA  
ATANAACCTGGNTTTTCTTCCCCCATNAAAAAANTCAGGTTGGCATAAAAAGGGGCAGGNT  
TAAATGGATGGGGGAAGGGCANCCNGATNGTTGTTTANGTCCTAACGGGTGGGACAATT  
TTT

Sequence 1203

CTCCACCGCGGTGGCGGCCCGCCCGGGCAGGTACGCGGGAGGTCATGGAAAGTAAGAATTA  
TTACTATCAAGGGGCTGATGGGCCAAAGGAGGGAAGGAATTAATTAGAGGAGCTAACAGA  
CCAACAAACAAACAAACAAACGAGCAAAAAACCCAGGTCCCAGGACAGGGAATCCTGATG  
GGCGGGAGGTGGTATCTCCGCAGTACTGAGAGAGGGGCTGTGGTCAGTTTCTTCCCCTT  
GAAGATGTTTCTTCCCCTTGAAGATGAGAATGATGTTAATATCCACTATCTGGAGTTGTT  
CTGAAGATGAAATGACATANATCCATGCACCAAGCATGTGGTTAAGTGCTCAACTTATNG  
TATTAACAGAAAAATTCA

Sequence 1204

CCGCGGTGGCGGCCGAGGTACTGACTTTTGGAGTTACTTAAGAACCACAGTTCCTAAAC

Table 2

ATTTTATTTGGGAGCTCAACTTCTGGCTTCTACTTACCAAGAGGCAGTAAGTTATAACC  
TCTGGCCTTTGTCTTTACATTTTCAACTTTCTGGATCCCTAACCTCTGGTCCCAAGTTAC  
TACCCTTGCTATATCCACTAACCCTCACTAGGTCACAAAGTTGATGGCTCTGGCTTGA  
CCCAGTGAATGAGAAGTGTCTAGATGTTTTTTTTTTTTTTTCGAAATCTTCATAG  
GCACAGTTGCCTGTTTAAATTTTTTCTTCAGCCCTTCCCTTAGAGGAGGGAGCCTTA

Sequence 1205

AGGTACGGCTTAGCTGGACATCACTCCGAATTAACAAAAAGAAACCTCTTGTGAGCTTA  
GACTTAACCCAATCTAGAGGCAGAGGCTTTGTTGAGATGACCTCCTGGGGTCTTTTGCA  
TTTACAGTTCAGATCCTTTGCTTGGTTGTTAAGATATGTGTGTGGGGCTCCCTGTAAGAG  
CCAAGAAGCTAGCGCTAGTGAAGAATGTGGACTGTTGTCTCTGCGTGTTTGTATCAGTGT  
GCTGTAGGAAGATCAAGCTAGCCACGGCCCTCTAGGGCCTGTGCCACAGGGCTCCTTCC  
CGTGCTCAGTATGCGTGCCTTTAAATCACAAACCCAGCCCTCTTCACTGAGAGCCCTTGGT  
GC

Sequence 1206

CCGGGCAGGTACCCAGCTGAGACTGGCTAATTCTAATTCCTCCCCACACTAACCTGCCT  
CTGCCAGGCCAGCTGTGCTCACTGGACAGAAACACCCCATGCTTTCCACCCTCCTGCAT  
GATGGGGACATGGATTCCAGGGCCAGCTGTCTGGGACATCACACCTCTGACTGACTT  
TCCCTCATCAGCAGAGAGGGCCTGCCAAGAGGAGTCTCTCCAGTCAGTGATCAAACGTGC  
CTAGGGTAGGAGCGAGTGCCGCTGCCTCATTCATCACTGCTGCCAGGGCCCGGTGCTCCT  
AGGGTCAAATTTCAATTTCTCAGCATCCTTGTTTCTTCTTGGTGCTGAGGGGTTTGCC

Sequence 1207

GCTCTGGGAGTGTTACATAACGTATGGTAAGTGTGCTACATGGCCTTTCTGAAGCCCAAA  
CCATTTTGCATTATGAAAATACCTGGCCCCAGGAATTTAGATAAGGGATTGTGGACTTA  
TATTTTAAATCTGTAACCTCTATAGACAGTAATTTATAGAGCCAGCTTCATGGAGTTGT  
AAATATTACTGGGCTAGGGTCAGTTTCTCATTTTAGGCTTCCTTTAATCCAGTCCAGAC  
ACCAAATTAATGTCTTTGTGTAGTCCCCCTTCAAAGCCTCTTGCAATCCAGTCATGCTT  
CAGGGTAGGGATGATCCCATTAATCCAAGGACCTGCCCTAGTG

Sequence 1208

CCGGGCAGGTACGTTCCAGGAATGGTAGATAGAGCATACATATAGGGCAGGCTGAGAGGC  
TGGAAGGGCTGCCTTGAATGCCAGGCTAAGGAATTTGGACTTCCTAAGGAAGCATGGAAT  
GAATTTTAGGCTGGGAAGGGATAGGATCAGATCTATGTTAATATTGCTACCCCAATTGC  
AGCGTAGAGGATGGGATAGAAGGGAATGTATGGATTCAGGGAGATGGCTTANAACCCCTAA  
GATTCATGGTAGCAGGGTCTCGAGCANGGGCTTGCTTGAGCAAGCAGGTCCTGTGGAGCA  
GGTTTGTCTTAACTCTCGTTGTCTTTCTGAATGGGTATCAAAGAGG

Sequence 1209

CCGGGCAGGTACGCATGCTCCTTTCCCACTTATGGCAGCCACAGAGTGCTCTGGACCAAC  
AATCTAACCAGTCCGTTGAAGCGTGTGGTGAAGCCGGCCAGGAATCAAGGGGCTCAGAGG  
CAAGATCAGGGGTGTGGGATACAGCAAAGCCCCTGGGTCCCTCGGACAGCATCAAATGAAG  
TATACTGTTTGTTCCTCTCCATTTAACTGGAATGTCCTGAGTGCTGTTTGCCGGGAC  
CTGGGCCAGGTCTCTCGCATTCTGATCTTCAGGATGCTCTCTTGACATTCTGATTGT  
CTCCTCATTAGCTTGTTCATTATTGAGTCCTTCATTCTACCATTTGTTCTTTAGTTTC  
TT

Sequence 1210

ACACAGTGGGCGCTGGGGACCAGGGCCAGAGAGTGGCCACCTGTTAGAGCTGCATGTGTG  
TCTTGGGCTTGGTCTTCTTTCTCTGCTCACTAATGACAGCTGTCCCAGCCTCTTGACAGG  
TCTGGCCACCACCTTGCTTGTGTGATTTTTTTTTTTTTTCTCACACATGATAAGCTG  
AGGCAGGAGAATCCGCTTGAACCCGGGAGGCGGAGGTTGCAGTGAGCCAAGATTACGCCA  
CTGCATTCCAGCCTGGGCGACAGAGCAAGACTCCGTNTNAAAAAAAAAAAAAAAAAAAAA  
AAAAAANGTGACAAGCAGAGCAAGCNCATTTAGGTGACACCCGGANATGGAATCGGGAC

Table 2

GGCAGGATNAGCATGGGTTTGTGGCGANAAAACCCGGGGCAATAATGACATACAATGCAA  
ATTTGCCAGAGTCAGCAAAAAGCCTATNTGGTANAAATTGCCAAAGAACAGAAAAAGAGG  
GAAGGGTCAANACCTTANTGCAGGCTACTTTTGNTACTTGACAAGCAACCCGGGCACAAAA  
GGAGTGTTCCTACTGGAAGTNAAGGAAGGAGGA

Sequence 1211

CGCGGTGGCGGCCCGAGGTACAGGAAAGGAGACTTAGTCGGAAAAAGTCCCCTATAAAG  
GGAGGGGACCAGGAGGGTGCTGTCCTGGAAATCCCAGGAGGAAAATGGTCAACACCCCCA  
GCACTCCACAGAGAGTTGAAGTGAAGGTGTGTGTTGCATCTGGCAACTGGAACTCATGG  
ATGACTTGAGCATGAACAGGTGCCCCAGGGTGGGGGTGTCATAACCCGGGAGAGAGTGAA  
GCAAGGACTTGAGAACAGGGGTGGTGGCCACTCTCTGTGGGCAGCTAAATACAGCAGCA  
GCGCAGCTATGATGGCCTTGCCCTCTGCACATTCTGGCTGGCCCGTCAGCCCTCCTCCCT  
GAATCATATCCCCTTACTACTGTTGCTCATTGTTGTCTGCTTCATTGCCCAAATTGG  
CAATGACAGTTTCCCTTTTACCTCCCTCTGGAAGCTCAAATTTCTTCCGTAGCCTTATGA  
CTGTTCCCTTTGTGACATGTTTAGGTTTGG

Sequence 1212

CCGGGCAGGTACATTATAACAAAGTTTTTAACATGGACTTCAGTTGAATATTTAAAAACA  
AACTATTTTTGGTAATAAATATTTTTATCAGTTTCTCGGTCAAATCTGTCACTAATACTG  
TGCTACTGATACTTTTCTGAATATGATTTTCCATCTGGTTTTACTAGTTTTAATTTTTTC  
ATAAAATTGCAGTATTTTGCAGAGTTACATTTTATACTTGTTGTTAACTTCTACAGT  
TGATGCTTCACTATAACCAATAATGTTTTAGTTGCTAACATACTTTATATGTGCTGCTG  
TCCCCAGTTAGCTCAGGAAAAATTTTGCTAGATGGAGAATATTCTTAATTCTAATTTTTT  
TCTTATTGAAAATTATAGGCTGGGCGCAGTGGCTTATGCCTGTAATCCCAGCATTTTCGG  
AGGCCGAGGCAGATGGATCACCTNAGGTCAGGAGTTCAAGACTAGCCTGGCCAACGTGAT  
GAAGCCCCGTCTCTACTAAAAATCACACACACACACACCAA

Sequence 1213

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTGGATTITNAAGTCAGTG  
AACCAGGCAATCACCGACACTGCCCGCGCATTATGGGCCTAATTCTGCANAGGTCTGACA  
AACCTGCCAGAGACAGAAGATTAAGCTATTCCAAATTACCCAGACGGAGGCAAGCCCAN  
ATTGGGCTNTNTGGGACAGAGGTGGGGGTGGGGGGACCTTTTCAATTTCTGCTCTTTGGAGA  
CCTCCAAACTAAACAGTTTAAACCACATNTTGAANAAAATTGCCTAATCCTTTACCTT  
TAAGT

Sequence 1214

CCGCGGTGGCGGCCGAGGTACTGACTTTTGGAGTTACTTAAGAACCACAGTTCCTAAAAC  
ATTTTATTTGGGAGCTCAACTTCTGGCTTCTACTTACCAAGAGGCAGTAAGTTATAATC  
TCTGGCCTTTGTCTTTACATTTTCAACTTTCTGGATCCCTAACCTCTGGTCCCAAGTTAC  
TACNCTTGCCTATATCCACTAACCCTCACTAGGTACAAAGTTGATGGCTCTGGCTTGA  
CCCAGTGAATGAGAAGTGTCTAGATGTTTTTTTTTTTTTTTCGCAAATCTTCATAGGCA  
CAGTTGCCTGTTTAATTTTTTCTTCAGCCCTCCCTTAAAGGAGGGAGCCTTAAGTTACC  
TTTCAAGGTTGGGGTT

Sequence 1215

CCGGGCAGGTACGCGGGCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCACGCCTGG  
CCTCACCTGGGACTCTTAAGTGATCTATTCAGGGACAAAATCAGGATGGTAGTGACAGA  
CAGGATCTTGACATTGATCTGGAATAACGAATCATGCTATTTTGTATCCAGAATTCTTT  
GACAATTTTTGTCTTGCCCTTTCCCTTTCAACCCCTCCTTTAAAAAAGAAAACGAAAGT  
AGAAACTATTCTGATCTTTATTAATGGTTAATAGACTATAATGACAGTCAGCAAGAAAA  
ATTTTTCTATTCTTCTAGGAGGGCTTAGAAAGTTCATTGTTGCAACTTAGCTCTTTAAG  
AATTGTTGTAGTATGGGAAATATGCTGGTTTTTCACTGTGTGGAATTAGAAAGGGCTTTA  
GGATGTAAATAATGCATTTTCAGTGAATCAANACAGCTCTTTTTTACCATGATAAAAGT  
TTGCCATTCTTGATTTTTCAGAAAA

Table 2

## Sequence 1216

CCGGGCAGGTACGGGGGCGCTCTGTAGGCTGCCTAGGGAGCCCTGGCTTTGCTCTTCGTGT  
TGGGCTCACTCCATGATCAGGAGCCGGTGGGACTGGTCCTTCCTGATTCTTACTGTCTGT  
GGTTCCCCATCCCCACGGGGAGCCTGCTTTGGGCGCTTGAGCTGGATAGAGAGAAGAGCT  
TTGGGGCCCAGCTGGTTATAGGAGCTGAGCTTTCCACACCTCTCTTTGTTAACCCCTGG  
AAACAGACCTGCCTTTACCTGACCCATCTTCCTACCTGTCTGGTCTGACCTGCCCTCTT  
TGAAAGCACTCATCACCTAGTTTACTAGGCTGATTGGCAGATGTGGACATGACA

## Sequence 1217

CCGGGCAGGTACAGCAGTGCAATCTCAGTCCCCTGCAACCTCTGCCTCCCGGACTCAAGC  
CATCCTCCCGCCTCAACCTCCAAGCAGCTGGGACCACAGGCACGCACCATCACACTCAGC  
TAATTTTTTTTTCTTTGTAGTTTTTTTTTTAGAGATGAGGTCTCACCCTATTGCCTA  
GGCTAGTCTCAAATTGCTGGGCTCAAGTGATCCTCCACCTCAGACTGCCAAAACACTGA  
GATTACAGGCCAGGATTCTCAATTTTTAAGAGTGTAAGAGTGTCCTAAGACCAAATATT  
TGAGATCCCTAATACAGGCAATACCATTTCTCAATGCAGGTTATTATTTTAATTCTTA  
TTTTGAGAGA

## Sequence 1218

CCGGGCAGGTACGGGGGCGCTCTGTAGGCTGCCTAGGGAGCCCTGGCTTTGCTCTTCGTGT  
TGGGCTCACTCCATGATCAGGAGCCGGTGGGACTGGTCCTTCCTGATTCTTACTGTCTGT  
GGTTCCCCATCCCCACGGGGAGCCTGCTTTGGGCGCTTGAGCTGGATAGAGAGAAGAGCT  
TTGGGGCCCAGCTGGTTATAGGAGCTGAGCTTTCCACACCTNTCTTTGTTAACCCCTGG  
AAACAGACCTGCCTTTACCTGACCCATCTTCCTACCTGTCTGGTCTGACCTGCCCTCTT  
TGAAAGCACTCATCACCTAGTTTACTAGGCTGATTGGCAGATGTGG

## Sequence 1219

AGGTACCGTGAATCTTTAAGTTTTAGGGTGTGGGGTTTTCCCCTTACCAANTGCAATATT  
ACCNANAAAAGNATAATNNCCTGAGTTAAATAGCCTCTTTGAAAAACATTATANNANGC  
CAAGTGGGTTATATGAATGGCTACTCTGTCTTGATTCTCAGTACCTGCCATNTCNNGTCC  
ATGCCATTGATGGCCAGCACTGCATGACCCACTCGGATGCCGTTT

## Sequence 1220

GAATCTCACGGACTTGAAAGGACAGAGACGTTTCCTGAGATGTCTGCGGCAGAATGTGGG  
AGGCTTCAGCCTGAGGAAAGTTCAAGTTGGAGAGAAAGGTTGCCAGACCTTTGAGTGACC  
CACACTGCTTATAACTTCTAGAAGGTTCTTTAGGGAAACCTGCTTAGAANGAAACCCCTG  
AAACGTCTTTGCTGCCTCCTTAACAACTTGCAATTAGAGAGTTTCTTCAGCCAAAAGGTG  
AATGCTGTGTGAGTGGAAGGAGAGGACGGAGTCGATGTTGTCCCCTGTGAGATGTCATG  
TCTCAGGCAGTATGCTGGACATTTCCCGAGACGCCAACTCTGCTCAGGNTGACTTGTGTG  
CCCTGCCCTTTGT

## Sequence 1221

AGGTACCAACGTAGGGCTTTGATTCAGAAGAGTGTGCTGTGAGGAGGCAGGTGCCAGGCG  
GATTTTATCATGACCTGGGTGAAAGCCATCTGCCCTGCAGAGGGAGCTGTTTCAGAACTC  
CTAATAGGAAAGTCAAACGTCCAGCACAGCCAGTGCAAGAGTGGTCCCACCAGCACAGTC  
CTGGCAAACTCTTGACTGTGTAGCCTTCAAATCTGATTCTCTGGATCTCTGGGTGGTCC  
CATGAACATATAATAACATTTGATGAAACTTTTTTCTGTTAGCTGGTGTAGATTCTGT  
GATGTGTAATTGAGAATCCTAACTGAACCCACAATTTTGCTCTTGATCTTTTTTTT

## Sequence 1222

ACGCGGGATTCAAGTAACAGAAATCTCCCTTCCCTTCTTTCTCTGATGTGCAGTAGTTCT  
GCCTGTTANAATCATCTGGAGAGCTTGTTAAAAATACCAATGTCAGGAGCTCGACCCTAG  
AGATTCAAATTTAACTGATCTGGTGTGGGACCTGGAAATCCTCTATTTTTTAAAGTTCC  
CCAGTTGAGGCCAGGTGCGGTGGCTCACGCCTGAGTCCCGGCACTTTGGGAGGCCGAGGC  
GTGTGGATCACTTGAGGTGCGGAGTTCGAGACCAGCCTGGCCGGCGTGGTGAAACTCCAT  
CTCTACTAAAAATACAAAAAAATTA

Table 2

## Sequence 1223

CCGGGCAGGTACATTTCAATTCAGTGGTGCAGGCTGGGAGGGCCATGAGGAGGGAGGG  
AAACAGACCTGTGCCTGCAGCTGCTTTCTGGCCACCTCTGTCTCCTCCTTGGTGTCT  
TTCTCTTAGGGCTGGAGGCCTGCTCTCACCACCTGGGAAGGAGTCTGGAGAAAGACGGG  
TCCTCCTGCTCCGTGGCGGCAGAGCCGGGATTACCCACTGACATTATAGCTGGCAGCC  
GTGGGCTGTTGGCACCCTTTAAAAGAACACGATGGCAATTTTCCAGCTAAATCTCCCAA  
TTAGGCAGTTAGAGAAACATTATCCACCTCAGCATAAAGCTGATGAAATGGA

## Sequence 1224

AGGTACTTTTCTTTTCTTTTTTTTTTTTTTTTGTGTTGTTTTAAATGAAACCCTCT  
AGGCCTCATTTTCAGTGATTTTGATTAGGTGGACTGGAAGAGACACTCCTCTAATAGTTC  
CACCAACAGTCACAGGAACAAGAAAGGCACATCAGGAAAAGCCACACAGGAAATGGTTT  
TGCCAAAAGCCAAAACCATGAGCATGCAAAAACCAAAGTAAATTTCTGTAAAGTCACAA  
AATGAAGCATACATCTTTTTTTCTTTGAGATGGAGTTTCGCTCTTGTGCCCAGGCTGG  
AGTGCAGTGGTGAATCTCGGCTCACTGCAACCTCCACCTCCCGG

## Sequence 1225

CCGCGGTGGCGGCCGAGGTACCTTGCTCCACCAATCCCAGCTGTCACATCAGCCCTATAT  
GCCAGTCTCTGGGATTTTGCTTTTGTGTTTTCTGTGTAAAAACACTGCTTTTTGTTGGG  
CTCTGCTTTCCTGTGTTACTGTTAGACAGTGTCCCAGACAGAAAAATGGAGAATGGCA  
AGATTACCTTATGTGTTCCCTTCTTTGAAGGATCAGAGCCTTTTATGTCTTCTGTCT  
AATGCATGAATAGGGTTGCTTCATGTAGTTTATCCAATTTACAATTGTTTATGGCAAAAG  
GGTAACTTTGATACCTTTTACTCTGTGATGGCTGTAAGTGAAGTCCTATTAATGCCTTT  
TTAAATTAATAATAGCACTGCCAATAAAACCTTAATTTCCATACATCAAAAGTCAACCAA  
AGGAACTAATAAGTAGTAAATAAAAAATGTGGGGCAAGGTTGTGAGCAGACTCGTGTA  
TTTCCCATTTTAAATTTCTTAGAATAAAAAAATTTCAAGAGCCCGCTACTCCTAT  
TCCCAGCAGCACAGTTCACAAGCTCTGTGGCTGACATGCAGAACATGCCTGCTGCTGTGC  
ACGCACTCTTGACACAACCTNTCTTCAGCGCTGCTNCTTTTGCTCAGCGGGTANTTTGG  
GAAAC

## Sequence 1226

AGGTACATAAAGTGTGTGTTGTTTTTAATTATTTTGAACATTTCAGTATATTGAAAAAT  
TCAATTTTGTGTTTTCTCTGCATTTGGGCTTGTTCTTTTGCTAGTTTTCTGATTGATTT  
GCATAGACCATGACTGGATGTTGTATTTTTTTTTCTCAAAGCTAAACTGTATGAAAAA  
TCAAGACTTAAAAAAGGTAAATGGAGGCAGTTGCACAATTACATTTGTTTAAATGAGCTTT  
TACATTTTAAAACTTTTAATTAATGTTATACTATTTTCAGAAATTCAACTGTAGTTATAAA  
ATTATAAAGAATGCATTTGTTATTTAAAGTGAGATATGCGTGCAGACACACAGACCATGG  
TCTTCCCTTCTTCTCTGGTCTACTGCTTCTGCCTTATATCCCCTAGATTCCTTCTCACT  
CCCCAAAAGGCAGAGGTTAAGAAGAAAGTTAAATATCAAGACACACTAAACTGTTTTTG  
TGGTGAGTCAAGCTGCAGTGCCTCGCTGACTGGGAAACAATGGGGCTGGGCCTCCTAGAA  
TATAGTAGGCTGGAGAAAC

## Sequence 1227

ACGCGGGGACACAATTTTAGTAATAAGCTTCAAAACCCATCACTCCACTGAATCCAGGGA  
TGCCAGAATTGAGAGTCCATAGGACCCGTTTAAACGGATCCCACATTAGTAGACGGTTTT  
TTGTATGCTTCGAGGGAAGGAAGGTATTTTCAAATGCAACTTCTTTTTTTTTCTTGCTC  
TAGTTAGGGCTGATTTTACCACTGGGCAAATTGCATACATTTGGATCCATGCCACGCTAA  
ATACTGTTTATTTTGGAGATCTGTGAGAGGCAAGCACATGGAAGACAAGGGGATTCTTGG  
TTTGAAGGCAATTCTCATCCAGACAGATTAGATGGAGAGGAGCGGTGTGGATTA

## Sequence 1228

TCTCTGTCTTTTAACTTTGCAGAAAGCCCTTCCAGTTATACACTCANACCCTGTTTCAGG  
ACGTTGGTGGCCAAACAGTCCCCTTTTGTAAAGCGAGCGTCCCATTTTGTCTCCTNTGA  
AAGGTGTCCTCCAGGACAGCANAGCCTTTCTTGGGCTGTTTATAATTGAGCCCTGAAGA

Table 2

AAAACAGAAATCATTCTAAACCCAGGCCAAGTGCCTCCTTGGCCTAGCTAGGCAAAGCTA  
AACTCACACAAGATGAAATNTAACAGCTGGTTACCTGAGAACCACTTTCGGGAGTTC

Sequence 1229

AGGTACCACACATTGCAGGCTGGAAGACACCAAGGGAGACACATGTTAGTTGCAACTATT  
GGGACAGGTGTGCTCTGTTAACACACAGGCAGTTGCTGATGTGCAGACTGGGTTTATGAA  
CAACTTGCGCATGTGGCCTATGCTGGGTGCATGTAAGGCAGATGGCCTTGGCCCTAATT  
CTGAAAACATGAACAGTGAGTGTCCAAGGATGCACCTACTCCCATGTCAAGGCAGAGAA  
TAAGCGAGTTACTAGAGCAAAGCAGACCCGCTGGTGTGGCTTTGCCTTCCCACCAGCCA  
GAGGGAGCTTTCTATTGCGCCCTGCAGCAGTATTAAACCCTCGTGTCCCAGGTGGAGCCCA  
AGGCACCTTCTNTGGTCTCAGGGTGGGTATGGACAACAGTCACATTAATATGAAACCCAA  
CTACTGTTATAGGTAAGGAGCCCAGAGCCCTTGAGAAACAACCNAGAGGGAAGCATGTGT  
CCTCAAATNCTGGTTGCCAAGAGAAGGAATGGCTTTCANTGAGCCTCAGANAACCAGGC  
TGGAAAAAAGCCCAAAAGTGCCCGGCCCTCACCTGTGTCTGGCTTCCCCNTGCTGCCA  
ANGGGAAGANCTNTGGGNTNTTGTCCCTTGACCATNTTCTTTTTTGGGAAGAAANAAA  
AAANNACTNGGGCTTCCTTAACAAACCCCTT

Sequence 1230

CCGGGCAGGTACGCGGGGAGACTTTCCTGCCGGGCACATGGACCTGGCCCAACCCTCACA  
GCCAGTAGACGAGCTGGAGCTCTCGGTGCTCGAGCGGCAGCCAGAAGAGAACACGCTCT  
CAATGGTGCCGACAAGGTCTTCCCTTCTTTGGACGAGGAGGTCCCCCGGCCGCTCTAGA  
ACTAGT

Sequence 1231

GGGGGACCTCCTCGTCCAAAGAAGGGAAGACCTTGTCGGCACCATTGAGAGGCGTGTCT  
CTTCTGGCTGCCGCTCGAGCACCGAGAGCTCCAGCTCGTCTACTGGCTGTGAGGGTTGGG  
CCAGGTCATGTGCCGGCAGGGAAGTCTCCCCGCGTACCTGCCCC

Sequence 1232

CCGGGCAGGTACAGGAAATATGCTTACATAACTACTCTTTATGGTATGGGATGGGAAAAAG  
CTAGGAAGCCAGAGAGCACTGGGTGCTAGATGCATTAGGAAAAGCCCCCATCTACTCCC  
CACCCCCACACTCTGCATGGGCAGCCACCAGTCAGGGGCTGTGCTCACTGATATCCACCA  
CCCTTGAATATGTCCCCACCACCTGCAAGGGGCCGACNGATGGAGCCTACTAGCAATCAC  
TGCATCTTTGGTTTACTGGTCACAGCATGTTAACATTTAGCTTCTTTTCCCCCTCAGGA  
GTTTTAAAAATGATGGCAGAGAAAGTATGCCATGTAAGAGAAAAAATNCCACTA  
GGGAGATGAGCAGACCAGGTTAGCAGCCTGCTTCAGCTCTTGGGAAGGTAAAGAAACCTT  
TTCCGGACCCCTTGGTTTCTTTCTTGATAAGCCACCCAACATTNTTGGTTNACCNNTCA  
AAATTTTTTCAGAAAAAACTTTTTAAAAAATNATTAATAAATTTGGTANTTACNAAAATNGC  
CCGNAGGTATTAAACAATTTTTAATGGTTTTTAATTTGGAATTNACAAAAATNGCCCGA  
AGTTNTTAAACATTTTNTANGTTTTCCCGGNTNAATTTNAANGGGGAGNTTTTGGTC  
CNTTTTGGGAAATANANGTGNNTTGGGTTTTAAAGGGGAAAA

Sequence 1233

AGGTACTGCAATATGTCATGAAGAACCAAGAGAAGCTAAGCAGTGGCGATGTAAGATTGG  
TGGGCAGACAGACTGAAAGCAAGAAGAACCGTGAAGAGGTTCTGGAGAAACCCAAGCCT  
GAAGTGCTAATCTAGGATGATGGGATAGTAATGGAGAGAGGAACAAATCTGAGGTAATC  
TGAGGGAAGAAACAACAGAAATTTGGTGGCCGACTGGATATACAAGACGAAAAACAGTCAA  
AGGCAGGGGTTGCAAAGGCCAAAGGTGGTCATGGGCCAGGCAGGAAATATGAATGGGAGAA  
GCAGCTAGGTGGAGACTGGCAAGCCGTGAACCCCGCGCCATCTAAAGTGGATGCCTGAC  
CCTGGGATGGAGCCCAGAGTAGCCAGTTCTTGCTCTGCCCTCTCTCTGGGTCTCTCCAGT  
CTCACTTCCCTCCAGTCCAACCTNCACGATGTGTTTCAGGGTGTCAAAGCGACCTTTTGA  
AACAAAAACCTTAATTNTTGTACATCACTGCTTAAAAATCTTTAAATGGTC

Sequence 1234

ACGTTCAAGGAATTTTCCAGTGAGTTATAGAAAATACTCAAGGAATACATAATCAGAACA

Table 2

TANCAAACTCTTCCCAAGAAGAGAGATCAAAACAAAGAAACAAACAAAACTTTAAGACA  
GCAGTAAGCTTCAGTGTCAAATCGCTTGAGGAAAGGATAAGAAAGGAAAAATTAGAGGCCA  
GTTTCCCTCACGATTATACATACAGTAAGTCCCCACCCTCCCCAAAATCTTCAAGGAG  
TCAAAATTCAGCGACATGTTAAAAAAAAGGTGTTTGTAAAAAACCATCCATGNAAAA  
TGTTTGTTTTATCCAAGTTAANACAGTTTCCATGTTAGAAAAATCTATTTAAATTA  
TTTTGCCCGCAATANNGAAAATTCACCAAAAAANAATTCATTATGGACCCACCCTTTT  
TAAANAGGAATGGTANGAAAAANAGGGGGACCGCCAAGGGTGGGGATTCAACCCTTGAAG  
GGGTTTGGGGGAAGGTTTCCTAAAGAACCCAGGCCCTTGNACCCAAGGCCANTGGGGAA  
GAAAANCCACCTTGTTGGTTCNTAACCTTAAAAAATTANCAAAAAATTTAA

Sequence 1235

GGCCGAGGTAAGTGTGAGGGCATCATTAAATCAGCCAGTGTTCAGTGAGAGACTTGATGA  
TGGATTTAATAGTATTAAATGGGCAAAATGCCCTTGCCCTTACATGCTCATTTAAAAA  
CATATAAAAGAGCAGTAATTCAGGCAGTTATACTTCTCTCAAAGATTTTGCTCTAAATCA  
CAGATGGCAGCGGGAGGCCACGGCTGTGTGCTGGCTCACACCCCACTCACTCCAACCGAA  
GCCAGAAGTGCTCGTTGGGTCAATTAAGCAAAACCCCGCAAACTCGACTCTTTAAATC  
AGAGGCCAGTGACTGCCAGGCTGGGGCATAGACGGGAGAAAACAAGCAGAAATGGTCAAG  
GTGCTCTCTGGAGCCTGCCTTCGGATAGCTGTGACCCCACTTAGGCATCAAGACAGGG  
TTCCACACCTGCGCCGCCACCCCTGCAGTGTGAGCGCTGTATTTGCTTTTGANAAAG  
CCTCACGGTTTGGCTCTTTNGGNTGCATGANGGCTTTAAGGGCGATGTGNCCCTTGCC  
CAGCTTGTGCCCCAAGCTTCCCNAGCCCTTTGGCCACAGNCCAGCATACATCTTTTGTT  
TTAGAAACAAATTATTTAANNCACTTTAAATCAATGAATT

Sequence 1236

AGGTACATCTGGCCTTAGGGCTGTCTATAGATTCTAACTCTTAAGTAAGATGTTATGTTT  
TATGTATTTACTACTGCACAGTTATCATTTTAAAAAAAACCTTACTTTCCCTACTAA  
CAGTANTTGAGTGATGATAAGTTTTAGAATATAAAATTCACGGTTCCAAGATGGCTGAAT  
AGGAACAGCTCTGGTCTGCACCTCCCAGCGTGATTGATGCCAGAAGATGGGTGATTTCTG  
CATTTCCAACCTGAGCTCTGAAGAGAAGCCAGTTGGCTCTCCAGCCACCGGTGTTTGTG  
CTCTGAGAAATGGGACAGAC

Sequence 1237

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATCTTAATAGAACTCTAAGAGC  
CGGGGCTTCTGGGTAATAAGCACGGAGTATGAAGCCGCTGTGTTTTACTGACTTATAAT  
AGGACACCTTTAGTCAGCTCTGTGCCTTAGAAAGCATGACACTCACCCCCACCCCATGC  
CCCACCGAAAAAGAACCCACAGACCAGATTATCACCTCTCCGAATGAGGCATTGGAATAA  
TCTTCGCACTGTTCCGCGACCCGAAGGGCTCAGGAGTGCTGGAAAAAGATTCTTCACCTG  
TTGAGCAGTTCTAGCGGAGAAAAGATCAGGCTCGGCCTGCTTCCCTGCGAATCTGCCGTC  
TGTTGAGACAAGACATCTGAACCAGAAAGCCGGGGAGGAGGTGGCTCTCCATCCCCGTGG  
GAAGGCTTTCCCTGGTCTTTCACTTACCTTATTCAGGCCTCTTTAGTTCAGAAATAGCC  
TTAGGTTTTGCTCCTGGCTCCATTTTCTCCTTAATAGCATCGCTCTTTTCCATGTTTC  
TGTGTGGATGGGGGA

Sequence 1238

ACCACCACACCTGGCTAATTTGGTATTTTTAGCAGAGACGGTGTTTCACCGTGTTGGCTA  
GGCTGGTGTCAAATTCCTGACCTCAGGTGATCCACCGGCCTCAGCCTCCCAAAGTGCTGG  
GATTACAGGCGTGAGCCACTGTGCCTGACCCATAACATCTTTAACTTTCAAAAAGATGCA  
CTGTTTCTGCTGGGGGTTTTCTTTTACTAATTTGATTAGAGAATCTTTGTTTGTCCATG  
ATATTTGGAGTTTTTCTCGTGGGGGAGAATGCAGGTTTTCTCTTGATGGTAATAATTCTA  
CAGTAGAATTAGAATTCTTCTTCACTATCAAAGAGTCTTTATCTTCTGTAAAGAACTCA  
TGATATGGTATGTGAAACCCAACAGCCAACACATTAGGAAGTTCCAGTTGAAGTTTCTG  
AAATCAAAGAAGCCACCTGCGTCCTTCTCTTGTAAATATGCCACATTTGTGGGATCT  
TAAAAGGAGACCTGTTTTTCCATTTGTCTCTTCTCAAGCTTAGAATCTATAGTAAAGTTA

Table 2

AAAAACTCAGATTGTATCTATCATGGGTTAATGCCANCCAAACCCTNAGCTTTTGGGAAA  
ANATTGTGAAAAATGTTTTTTTTNTNNAGGGGGATTAAANAAAAAAGGNGTTTTTTTTT

## Sequence 1239

AGGTACTTGTGAATTCAAAACAGCACTCAGGCATATAGGTTACATTGGCACCAGGAAACC  
TAAGCAGTATTTCCATGACCAAATTCAGTGAATTC AACACCAAAGGAGAAAAGGAAAT  
GTTCTTTGCTCTGTATAGATTCTCTTCTGCTTGCTTGGGTTTTACAAAGTTCTTCTA  
ATTTTTATGTGCGATTGGACAATGCAGTTTTGGTAAAGTTGCTAAAACCATAACTGTTAC  
TCTTGGTTTTAAATATCAAACCAGGTAAAAGGGAGGGAGGAACCTAATGTTACAGAAGGG  
AAAAATGACTTAAATATCCGAACAGACACCATATGGGAGGCTTTTTACTCCCCTTTCCTC  
CTTTAAAAACAGTGTGTTATTTCTCCCTCTAGATTCCAGTTACTATGGAGGGATTTAGGA  
TTTAGTGGGACTAGTGTGCTGAATTAGCTTTGTAAGACAAGTCTGTTTACTTTTTATA  
CTAAATTTTCATGCTTACCACTGACTCTGATTTAGTTTGAAGAAAGCTATTTCTAAGAAT  
TCTGGTTCCTTAACATTTATTAGAAAGGGGAA

## Sequence 1240

AGGTACTTGAGAACAGTAGGCATAGTTTCAGGTTAAGGGCATCATACTGGAAAACAGGGAG  
AATTAATAAAAAATCTGCATGTTGATCTGAGAGTTATTCCAGTCTCTTTTTCCCTCCCA  
GTTCTGAGAATACTGGCTGACAAGTTCTTGCCCCATCTAGCTGTGAGATTAAGATTCA  
TCCTGTGACAGCAAACTGCTGAGATCAGGAAAAATATCTAACTGATAACAGATGTGGCCC  
AGATTGATAATCCTACAGTATGTCTACTCATTAAGACAGAATCCCTAGGCAACTTTTAAG  
TGCCTCAATCTTAAATATGAGATTAAGGATCACC AACATTTGAGGATAACCTTTAATAT  
GAAAGAGAAGAGGGAAATGGAAATACTTCAAGAAGANGACAAGTTTTTGAAAAAGTTAA  
CTGATTTNTTCAGAAGTAAAGGTATTTGCATCTTTGAAACAAGAAAGGATTGCTATGAAA  
AAAGCA

## Sequence 1241

ACACGCATGTATGTGAGCCACCTTGCTCTCCTGTAGTGAAGCAGGATGTTCTATTGGACC  
ACGTTACATTTGGTATTTGTTACCATGGTGGAATGAATGGGAACCGGGCCTGTCAC  
ACAGGTGAGACTGTAGCCAATTC AAGGCATATCCACACCATTTTTGAGGAAATATTA  
TAAATACATATGTGACCATTTAAGTGCCTAATTTACAGCACTTGATTTGTCTGACACAC  
AATGAGGGTAAGAATAGTGTCTATATAAATGGCTCCTTCGTTTTTCCACTTTGATAAC  
ATTCTTAAAAAGAGCTTCATTTACAAACATTACACTTTCCTAACATTTGTGTTTTGCAA  
ATGCTTAGAGTTGTAGAGT

## Sequence 1242

CCGGGCAGGTNCTTTAGGAGACCCAGGCGGGCAGATTGCCTGAGGTCAGGAGTTTGAGAC  
CAGCCTGGCTAACATGGTGAAACCCTGTCTNCTACTAAAAATACAAAAATTAGCCGGGCAT  
GGTGGCTCACGCTGTAGTCCCACTGCTTGGGAGGTTTGAGGCAAGAGAATCGNTTTGA  
ACCCANGAGGNGGAGGTTGCAGTNAGTCNAGATCGCGCCACNTGCACTCCAGCCATGGGC  
GACAGNAGCCAAGACTTTTCATTCTNAAAATTTACAGAAAAGGAAANGAAAACNANAGTAA  
NAGGNAAAAGGCTTATATTGGAAACNTTCTTCTAAAAAAAAGGAAANAAAAAAGNAA  
NAGCCCTGNATNGCCACAACCAAAATTC TAAAAATTTTNGGGCAAAGTTCNNAATNCAA  
ATTTAAAAAGGGGATTAATTTTTTANTTTTGGCNAATTCACCAAAAAAATTAAATTTNC  
CTTTTACCTTCCCCCCCCCAAAAAAATTTCCAAANTNAAAAAAGNTTTCAAAAATA  
ATGCCANACCTTTTTTCTTAAATGGTNTNTTAAAAAAA

## Sequence 1243

CCGGGCAGGTATCATAAAGAAGCCAGCAGATGGTGTTATACTAGCTTTTGAAGTTCTTTC  
GTCTGCCTCAGCTGAACTCTCCCTGAAGCCAAATAAGGACATCTCAACATCCACATGGGC  
ACACACACGCTGCGCGTGCACACACACACTGCTGTTTTATGTAACGTGTAGCTATG  
CTGAGTTTTACCTCCACTCTGTCAAAGGTGGTCTTTTTGTTGATTGATGAATTTGTTTTT  
TGCTCTACTAAAAATACAAAAAATTAGCCGGGCGTGGTGGTGACNCCTGTAGTCCAG



Table 2

CTACTCGGGAGGCTAAGGCAGGAGAATGGCGTGAAACCTAATAGGTGGAGCTTGCAGTGA  
GCANAGGTAGTGCCACTGCACTNCAGCCTGGGTGAGAG

Sequence 1244

CCGGGCAGGTACTGGGGATTGATTAGCCACAGTCTTTGCCACAGACTCTTTTGGACTGAG  
CCGATAGGTCAAAGGTTAGCTTATGCAGTAGCATGGGCTGTAGGTTTTTGCAGTGATCA  
ACACCGGAACTTTTAGAAGACTTTTGAAGATTTGTTGCTGCTGTGAGTGACATCAGTTC  
ACACAGCCTGAGAGAGAAGTCTCAGTCCATGCTGTCCCTCCTTGGGCTCACTCAAGCGAA  
ATGGGTCGAGCTGCAACACTGTGCGGTGCCAACCGGGAGAAATCTGCCTATCGGGGCTGA  
GAGACATCCTGTAGTGGCTGCCCCGTCTCCTTTGCCCCAAATGTCAAGTGAAGAGGTGCT  
TCACATATTTATTTCTTCTACATGGGCTCATTTATTGTAAGCCCATTGTGACCCTTGGA  
AAGCCAAGCTTTTATCTTGATTTTGGAGTGTGATCAAGGTGACAGTTGTTCTCCCGGATG  
ACAGGAAATCTGACTTTGGTTTTGCTTTTTTCCATAGAAGGTCAATTGGCCTCAAAATTT  
TGGGCC

Sequence 1245

CCGGGCAGGTACGCGGGGCCAGCAGCCAGAGTGAGCATATAAAATGCAGTTCTGATCCTG  
TCACCTCTCTGCTTAAACTCTTCAGAGGTTACCATCGCTTCCAGAAAAAGATCAATAC  
TCCTGACGTGGCAACCTGTGAGACTCAGGACCGCTAGGAAATCAGCTCTTGTTTACCCC  
TCTATCCATTACACTACGATCCAGCTGGGTTTAGGTATCACTTCCTCTGAGCAATCCTCC  
CTGATGTCATGAGGCAGTGCTGAGTGCCTTCTCTGGACCCTCTGTTTACTTGCCTGTAA  
ATCCTGAACATCTGGAAGGGAGTCGTGTTTCAAG

Sequence 1246

ACNCGGGGGAGTAGGAATGTTCCATAAGTAAGAGAGATGACTAGGGTTTCAAGAAACAAGG  
ACCAGCACCTATNAAGGCTCTGAGGCACAGACCACTGTGACCTGTGGAGAAGTGGCTCCC  
ACAGTTTCCCAGAACTGCCCCCTTGGTCAGAGTCACGGTTCTCCTCTTGAAGAGAAGCT  
CAAGGGCAGACCCTCNGCAGGAAGCANACCANCATTTT

Sequence 1247

AGGTACATTTTATCAAGTTACCTATGAACCGATGTATTTGTTCACTTAATACCATTCAC  
TAAATTCAGTTATTGACCTAGTCAATAACTGCCCACTTCACATTTACATACAGTGAAG  
AAACTCTTGTTTCAACATTCCTTTTTTGGGTTGGTTGGTTTGTGTTTGTGTTTCTTTTTT  
ACACAAGGCAATCCAAACTGCCCAATCTACTCCATCCGAGCCTGTGTGCAAACCCCTTTT  
CCCACACCCTGAATTTCTTTCTTCTTAACGTCCACCAATATGAGTCAAAGGATCTTT  
TTACAAAGCTATGGTTTACAAGCAAGAGCCACATTCTCCAGAACTCGTGTAGAGTTGCT  
TTGCTTTCAAAGCCCCACCTGGGTTTTCCACCATAATTGCTTTTCNGTCAACGACACTCACC  
ACAGCATNCTCTCTGGCGGTTTGTGAATCTCCNGCCCTGGGTCATGACACTANGCGACC  
CCCGGCTGGGCTTTTCTGCGGGCTGCTATTGCTTGGCTGCTGCTTCTCGCTGGANGGT  
NGCTTTGTTNACCAGGGGGTTGGCCAAGGGAACCTGGGANTATTAGGCACCCTTNTTAA  
AAACAACAACAANGNCNTTGGGGCCAAAAAAGAACTACCAAACCGANCGAACTTTTNGGG  
CANAAAGAACCACAAAANGAAAAAGGGGGGCCCAAGGGNATTTTCTTTTTTTCTTTT  
NTTTC

Sequence 1248

CCGGGCAGGTACTTTTTCAGATGAGCAAAAATGTAAACAATTGTTAATGTTTCATGGTTGGC  
AAGAGTGTGAAGTCATGGGGATCCTTGCATCACAAGTTCTTAAAACTGCACATGCCTTG  
CCCTAGTAATTCACCTTTATAGAACTTAATTTAAGAAAATAGATGGGCATGCCAGCACTT  
TGGGAAGTCAAGGTGGGCGGATCACAAGGTCAGGAGTTTGAGACCAGTCTGACCAACATG  
GTGAAACCCTGTCTTTACTAAAAATACAAAAATTAGTCGGGCATGGTGGTGCATGCCTGT  
AATACCAGCTACTTGGGAGGCTGAGGCGGGGAGAATTGCTTGAACCCGGAAGGCAGNAAGT  
TGACAGTAAGCCGAG

Sequence 1249

CCGGGCAGGTACGCGGGGGCCGGGCGGGTGGCACGTGCCTGTAGTCCCAAGTAGCTGAGA

Table 2

TTACAAGCGTGCGCCATCACACCTGGCTAATTTTTGTATTTTAGTAGAGATGGGGTTT  
CACCATGTTGGTGAACAGGCTGGCCTTGAACCTCCTGACTTCAAGTGATCCGCCCATCTCG  
GCCTCCCAAAGTGCTGGGATTACCGGCNTGAGCCACCACGCTGGCCTCGATGACTTCTT  
AAGAATTTATGTCAGAGTATTCTATTTGGCTACCTGTTTTATTATATTCCTGTCTGAGAA  
ATGGTGGTCGGTCTTTCAGACTGAGAGAGCAGCACGTCTTTTGAAGTGCACCCCTTA  
GCACTAATA

Sequence 1250

CCGGGCAGGTACGCGGGGATACTCTACAGCGTGTGCATGGCTGGATTGAGAATTTTTGGTT  
TTAAAAATTAAGCTTTTATTATATTTACCCATCAGGTCACCGAATACTTGGATTCAACC  
AAATGCTTGAAAGCTTCTTCAATTTGGGGGAAGGTGGGTTTGGAGGCAGAAATCCCTGCAG  
ACTCCACACCCAGGGTTTTACTAGGTCTCCGCGGCAGGTGGAAGGAAAGCTTGTGCCC  
TGCAGTTCCGTTTGCTTCAAAAACAAGGTGGGAAGGGTTCACCAATTGATCTTTG/GCA  
TATCCAGTGTAGGAAAAAGTGTATTTAGAGTATCATTATAAAATCGGCTGCATATGGTGG  
CTCGTGCCTGTAATCCAGCACTTTGGGAGTCCAAGATGGGCAGATCGCTTGAAGTCGGA  
AGTTTGAGACCAGCCTGGCCAACATGGTGAAACCTGTCTCTACTAAAAATCAAAAAATT  
ACCCGGGCATGGTAGCCGGGCACCTGTAATCCCGCTACTCGGGGAGGCTTGAGGCCCAA  
GGANAATCACTTTGAACCCCAAAAAGGAGGAGGNTTGCCATNGAGCCCAAAATTGCACCN  
NNTCATTTCCAACCTTGGGGTGACAGANCCAAGGACTCCATNTTAAAAAAAAAANNNN  
NNNNNNNNNNAAGNTCCCTCGGGCCGCTTTTNAAGTAAGGGGAANCCCCCGGGCTNN  
CAGGAAATTTNAAATTNAAACCTTTTNCGNTNCCGCCCAACCCCNNGGGGGGGG

Sequence 1251

CCGGGCAGGTACGCGGGAGGTAACATGTCATAGCTGACCTCAGACCTCGGGTTTTGATGT  
TAGTTTAAATTAATAAATACTTAGTTTTTGGCTTTGAATACTTTACCTCTGTCAGTTTC  
CTTACTCTAAAATGAGGAAAATAATCCCTCCAAGACAGATTATTGTAAGGATGTATGGAA  
TGAAGTATATATAATATGAGACTGAAGAATGAATGAACGGTTGAGCTGATGGATGCAGC  
AGTGTAAAGAGGAGGGCCTGGCCCCCTCGCTCGTTCTCCAGCCCCAACTAGAAAGAACATC  
TCANGGGCCCAGACCCTGCCACATGTCCATGGTAAATCAGGGGTGGGCCATGCTTCTGT  
GTTCTTCTGCAACCAACATCGGTTATAGCCGGTGGCAAGCACTGTAANAGGGGCCAGG  
CCAGNAGGTTGAAGTTGGCCTTNAAGGGGG

Sequence 1252

CCGGGCAGGTACTATACTTCCATTAGAGACTTTTTTTTTTGAGATGGAGTCTCTCTCTGT  
CGCTCAGGCTGGAGATTGCAGTGAGCCAAAATGTGCCACTGCACTCACTCCAACTGGG  
CGACAGGTGAGACTCCGTCTTAAAAAATAAAAAATAAAATAAAATGTAAGG  
CACATGTTGTAGTCATTATTGAGAACAAAAGAAAAGCAAAATTAAGTGAATCTTTGAA  
GTTAGGTATTGTTAACTACTGATTGTCTAAATCCACCACTTCAGTTTGTTTTAAAGTCTG  
CTTTTCTATCAAAATTTGAACATTACCGTAAAGTATGCCTCCAGAAATGACCACTAAT  
ATATTATTAACATATTCTTAATATTCCATGCATAGTGGGAGATATTGAGGTCTATTGCT  
TGATATAAGAAAATTAAGAACTGNATTTCTTCTTTTCCCTGCTGGGAGGGGTAAAT  
TACCAAAAATAATCNGATAGGTTCCGTGGGCNCCTGGTTNAAAGTNGGAAAATGCCNCT  
CAAAAATAAATTACCAATTTNAANGGNGCCCTACCAGAAATTTTATAAATNGCCCCAA  
GGTTAAATTTATTCTTTCAAAAAAATNTTGCCCCCAATACCAGGTATTGTTTACCCGG  
GATACCAATTAAAGGAATTCGAATTTNTTTTTTCTTTGAANANCTTTTGGCTTGGG  
TTTTTTTGGTTTGGTTTGGTNTGGGTGGGTNGGTTGG

Sequence 1253

GGGGGACCTCCTCGTCCAAAGAAGGGAAGACCTTGTCCGCACCATGAGAGGCGTGTTCT  
CTTCTGGCTGCCGCTCGAGCACCGAGAGCTCCAGCTCGTCTACTGGCTGTGAGGGTTGGG  
CCAGGTCCATGTGCCGGCAGGGAAGTCTCCCCGCGTACCTGCCCC

Sequence 1254

GCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACCTTTAATCCTCCACTGA

Table 2

CTTTGGAAAAACAACAAATGCCAGCTTCCACCAGATCATTTCTTCTTAATTAAGGTTA  
GCCAGATTCTTTTGGAGCACTCAATTTTCTGGTCAGGTCAACAAAAAGTAATGAACACC  
ACACACACCTCCCCTCCCCTGTCTTCTAGCCCCATTCTGGAGTTATGCAACCCTTGGGG  
GCGGCATACACTTCAGCTATTTGCTCTGTGTTTATAATTAGATTGTCTAGACAGGAGATG  
TTGCTGGAGCAATAGGAAAATATTTTACAAGATGTTCCGCAGAACCACACTTATAACAGT  
GATTAGGACACACTGCCAGACGCCGAAGCCAGCAGAATTGGCCCCGGGCCACGAGCCGGT  
TCACCCAGAGCAGAAGCCCTTTCAAGCTCTCATTTTCAAGGAAGAGGTGCCAAATTAGAGCT  
CTGAGGGCATGGAGCAGCAACTTCTTGGCCTTGGATCCGAGAAAGCAAGGNTGAGATAA  
TAGAATGATGTCTGCGATGCCCTTCT

Sequence 1255

AGGTACGCGGGACAAAAAGGGAGTTCTACCCCTACATCCTCATAGCTGAGTCACCAGGC  
TGACTGCATGGATGGCTCCTCCCCTGGAGAGGAGGACCATCTGACTGCCAAGATGGGGC  
CAGCGCCACCTCTTTGAGCCCCCTCCTAGGGTGCTGAAACAGCAGCTGAATGGCTGCTGGG  
CTTAGCATGGCTGAGGTGGCATCATGAGAGAGAGGCTGGGGATGATGTGACATGGACCTT  
CCCCGCCGGAACCAAGTCCCGCATCAATCCCGCTGAGCCCGGCAGCTTCACTTGCTGTG  
AACTGAGGACAGCTTGCAGGTGAGTTGTCTGTGAGCTAAGGACAAAACCTCCAGCCTGC  
TAAGGTATNAGAATATGTGCCCTGTGGGGGATGAAGATGACCGGAAGGAGGCAGGGAAGG  
GTTGTGGGCACCGTTCAGGTCTTTGGTGTGGNTGCTGCAGTCNAGTTTTTGTAGCCATTT  
CATTCCAGCTTTTTTGTATTGCTTACACCACTTTTTCGGGATTATATTTTATATT  
TCAATAAAAAAGANGTTTTTCAAAAANTTTCCAAGCTTNGCTTTGGGGAAGANTTCCATTC  
CTTTTACTTCTTGAATAGCCTTTTTTTTAGTCCCTTTCCCCCA

Sequence 1256

GGGGGACCTCCTCGTCCAAAGAAGGGAAGACCTTGTGCGGCACCATTGAGAGGCGTGTCT  
CTTCTGGCTGCCGCTCGAGCACCAGAGCTCCAGCTCGTCTACTGGCTGTGAGGGTTGGG  
CCAGGT

Sequence 1257

AGGTACGCGGGAGCGGGCTTATTTTTGAAAGGCATCTGTTACTTCAGTGGCATAAAGTGC  
CCTCACACTGCTGTGCAGCCATCACCACCATTCATCTCCAGAATTTGTTCTCAGTCCCAA  
ACTGAACTATACCATTCAAACAACAGCGCTCCCCATTTCCCCCTCCCCCGAGCCACGA  
CATCTCCTTATTATTATTTTTTTGAGACAGGGTGTTTCTCTGTTGCCAGGCTGGAGTG  
CGGTGGTGTGATCTCGGCTCACTGCAGCTTCCACCTCCCGGGTTCAGCGATTCTTGTGC  
CTCAGCCTCCCAAGCAGCTGGGACTATAGGCACGCACCACCACACCCAGCTAAGTTCTGT  
ATTTTTAGCAGAGACGGGATTTCACTAGGTTGCCAAGCTGGTCTCAAACTACTGACCTC  
AAGTGATCCACCCGCTTNGCCTTCCAAAAGTGCTGGGATTACANGTGGTGAGCCACCGC  
GCCTGGACCACATCTNCTTATTCTTAAATGGATGNGGTTTCTCAATGGGTTGGATTTAAT  
TCTTGCTGGGCCATTTTANCCCTGTCTATGGCTTTAATTCGCCCCATTCTTAAAGCCAGAN  
GAATACTGGCTTTGACCGGNTNTAAACCCANCTTNTCCCTTGAACCTTGNAAGGCCTGG  
CANTATTCCAAGTANGGTNTAACTGGGAAAATTTTGTAACTTGGCCCCGGGCCGGGCCG  
GTTTTAAAAANTTAAGTGGGAATTCCCCCGGGCCTGCANGGGAATTTCCAAANTTAAAN  
GCCTTTNTCCGATACCCGGCCAANCTCTAAGGGGGGGGNGCCCCG

Sequence 1258

AGGTACAGGTTTTTGTGTGGATGGATGTTTTCTTGAAGCTAACTTTTGAACCAGACAT  
CTAGTAGCGTTTTTGTGGCTTTCTGGACGTTCAACTCTTTGAACAGTTGAAGTGTGGGAA  
TCTTGCCCATGTCTGCTCACCTTCTCCAGGGAAGTCT

Sequence 1259

CCGCGGTGGCGGCCCGCCGGGCAGGTAAGTGTCTGTTTTATTAGGTCTTTAAGAAATGG  
GAGTTACTCGCCAGAGCAAATAAAGATTAAGTGGCACATAGTAGGAAGCCCAAGGAA  
CCAGTGAAGCAACAGAAGATAGAGTGAATGAATAAAGACACATGAATGCACTAAATCTTT  
TGTGCACATGGCTTTTACTGATTTTACCTGTAATGTCCTATAAGGCTATAGACAGTCAA

Table 2

ACTAAAAAATTGCTGTCATTGGGAGAGAGGCGGGTGGATCACCTGGGGTCAGGAGTTCAA  
GACCAGCCTGACCAACATGGAGAAACCCGCTCTACTAAAAATACAAAAATTGGCCGGG  
CATGATGGTGGGCGCCTGTAATCTCAATTACTGGGAGACTGAGGCAGGCGAATCGCTTG  
AACCTGGGAGGTGGCGGTTGCAGTGAGCCGAGATCACACCATTGCACTTCCAGCCTGGGC  
AACAGAGTGAGACTCCCATCCCCNNNNAAAAAANNNNNNNNNNNNNNGTTCCTTCGGGCC  
CGCT

Sequence 1260

CCGGGCAGGTACCAGGGCACTCCAAATATGTAATTTAACACATTCATTAATAACTATGAT  
AAATAGATATTTTATTCCAAGAACAATATCATTAGAGAGTTAGATTGGAGGGCAAGGGGA  
TTAAGTATCTTAAGTTTATTGTTCCCGAGTGACCATTTTTAAAAGCCTCCTTCCAGGAA  
CTGTGGAATGCCTGCCAGGCTCCCTGACTGCTGTCTGGTGAGGGTCCCTACTGGTGCTGT  
GGACAGCACAATACACAATGGGGCACAAGAAAGCCACGCAGCCTCCCCCTCCTAGACACA  
TGCTGTGCACCCCTTGCTCTGCTTGAAGGTTGAGCTCTGCAATGGAAGGTTGCAAA  
CATCAGACACCTTCTTTCTGTTTCTGTCTCTCTCCCTTCTTCTCCCAAGTGTCCAGC  
CTTGGCCCTGACTTTTCTGGGGTTGGGGAGGCCTGTAGGGTTCAGAAAGCTGAGCAGC  
TTNGGTGAAGACCTCCCTTAGCTCAATGTGCTCTGGCCATAGGGGAGCAGGACCAAGCAA  
GCTGAGTTTTGGGGG

Sequence 1261

GCGGCCGGGGGGGACCTCCTCGTCCAAAGAAGGGAAGACCTTGTGGGCACCATTGAGAGGC  
GTGTTCTCTTCTGGCTGCCGCTCGAGCACCAGAGCTCCAGCTCGTCTACTGGCTGTGAG  
GGTTGGGCCAGGTCCATGTGCCGGCAGGGAAGTCTCCCCGCGTACCTGCCCG

Sequence 1262

GGACTCNCGGGTGNGGCGNGTNAGGGGGAGNTCGCTCTGCNCCAGCTGGAGTGAGTGNC  
ATCNGGCTACTGAAGCTCTGCTCGGTGTNAAGCGATNCTCTGCTCAGCTTCTAAGTANT  
AGGATACAGGCGCNCCTGACACGCTTGCCTAATTTTTGATTTTTAGTAGANCCGAGGT  
TNCACCAAGTTGGCAAGATGGTCTCAANCTTCTGNCTCGTGACCGCCGCTCGGCTCCAA  
GTGCCGGGATTACCAGGCCGTGAGCCACCGCCC

Sequence 1263

TAATACGACTCACTATAGGGGNCGAAATTGGGAGNCTCCACCGCGGGTTGGGCGNGCCGG  
GTTGGGCGNGGACGCAAGGGGGGAGGGCAAGGGGGTGGACGGGCCCCGAAATCTTCC  
TCAACAAGCTCCCAAGGGAAGTGGCTTGCGCCCTTGGTTGGGTTGGGCGGGCGGGCTTCCC  
TCGCGGCTTTTCTTTTCCCCCGCGGTTACCTTCGGGCCCCGCTTCTAAGAACTAAGTTG  
GGAATCCCCCNCNGGGGCTTGCAAGGAAATTTCCNAATAATCAAAAGCCTTAATCGGAAT  
ACCCGGTCAACCTTNGTAAGGGGGGGGGGGCCCCCGNGTACCCCAAGCTTTTTTTGTT  
TCCCCTTTTAAGTGGAAGGGGGTTTAAAATTTGCCGCCGCTTTGGGCCGTTAAATCNAA  
TTGGGGTCAATAAGCCTGGTTTTTCCCTTGGTGGTTGGAATAATTTGGTTAATCCCGG  
CTTCAACAAANTTCCCAACAACAACCAATTACCGGAANCCCCGGGGGAAGGCCAATTA  
AAAAAGGTTGGTTAAAAAGNCCCTTGGGGGGGTTGGCCCCATAAAATTGGAAGGTTGGAA  
GGCCTTAAACCTTCAACCAATTTTAAAATTTGGCGGTTTTGGCCGGCCTTCNAACNTTG  
GCCCCCGGCTTTTTTCCCAAGTTCCGGGGGGGAAAAAACCTTGGTTCCGGTTGGCCCAA  
GNCCTTGGCCAATTTTAAATTGGAATAATTCGGGGCCCCAACGGCCCCCGGGNNGGGA  
GNAAGGGCCGGG

Sequence 1264

CCGGGCAGGTACGCGGGGATATTCACATGTGCCTGTCCCAGAGGAATTCCTTAACCTC  
CCTCCTGGAACCGAAATGCTTCCAAAGACAGAGAGCTCCTATATATATTTCTCTGTTTT  
CCCCAGAGGACCGTGATGAAAGGCGCCTTCTGCGCGTGTGTCTGACCCTGTGGA  
TCTTCTGGACAATTCCCGGAATTTCTTGAGGGCAAGCACTTCCCCTTAAGTCGCTCTT  
CTCGTTTGGGATAGTCAGTATTTATATAGNCACTATTCTCTTTTGGGTAGCCATCTAAT  
TTTATACTGNTAGTCAAGCTCTACTTCTTCCCTAAGAGTTGAATTTATTTTCTTT

Table 2

AAACCGCTACACAAACCCCAAATTNAACTCAACCAAAAGCGGGCTTTACCTAACTTTCT  
AACTACCTACCAAGGAAAAATATTCCACCAAAAGGAGAAACCGGAGAAAGCTTTGG  
CAATTTCCNCGGGANGAAAAAAGGAATTTCCCNNA

Sequence 1265

CCGGGCAGGTACTAATTAGCCAGTCATGATCTCCATTCTTACCAGGGTCGTTACCCTGGA  
CTTGGCACTACAGGGTCTTGTTGTCTTTGCTTTTGCTTTTCCAGCTCCTTAAAGCT  
TTTGTAAAGCACAAAGTAACAAGAGGAAAGAGAAACATGATGTGAATGTCAGAAAGAACA  
ATACTTGAGACCACCTTGAAGGAAACTTCCAGNCCTTTATTCACTACTCGNTCATTTCAT  
TCACTTATCAAAATATTTTAGGGCATGTTCAATGTGCCTGGAACCATGCTAATTGCTAAC  
ATTACAAATACCCTTAATTACATAAAAGGNTGNCAGCCTTCCAGGATAACTCTTNTAT  
TTTGGTAGCCCAATAAAGGGGCCCCATGCATCTGGTCTGNGGGACTGGAAGAAAATTCAG  
TNACTCTTTNCTAAAAGAATACNNGGAGGGATGNCCCCCTGGCCTGGCTGGAGGTNACCCT  
NTTTNTNTGGCCNCTGGCTTCTGGGCNTTTGGGCCTCCCTGGTCATTACAGGCTTTTT  
TTTT

Sequence 1266

CCGCGGTGGCGGCCCGCGGGCAGGACGCGGGGGGATACGCTTCCATAGCAAAGGGTTGC  
CCTTGGCTACAGGAGGACGCGGGCTGGCAGGCTTGGTTCCTGGCGAGTTTCTAAGCCCCC  
GCCTGCGGTCTGAGGCACCGGCTGAACCATGTGCGAGATCCTGTGCCAGTGGCTCAACAA  
GGAGTTGAAGGTGTCCCGGACCGTGAGTCCCAAGTCATTGCAAAGGCATTTTCCAGTGG  
CTATCTACTTGGAGAAGTTCTACGCAAGTTTGAACCTCAGGATGATTTTTCAGAAATTTT  
GGACAGCAGGGTTTCAAGTGCCAACTTAATAATTTTCTCGCTTGGAGCCAACACTTCA  
CCTTCTGGGTGTGCAGTTTGATCAGAATGTGGCCCATGGCATCATCAGAAAAAGCCTGG  
GGTGGAACAAAGCTGTTATATTCAATTGTACCTCGGCCCGCTCTAGAACTAAGTGGG

Sequence 1267

AGGTACAAGCCAATGCCNGCGTCAGAGCTGCTTTTGTGCATGCCTTTGGAGATCTATTTT  
AGAGTATCAGTGTGCTAATTAGTGCACTTATTATCTACTTTAAGCCAGAGTATAAAATAG  
CCGACCCAATCTGCACATTCATCTTTTCCATCCTGGTCTTGGCCAGCACCATCACTATCT  
TAAAGGACTTCTCCATCTTACTCATGGAAGGTGTGCCAAAGAGCCTGAATTACAGTGGTG  
TGAAAGAGCTTATTTAGCAGTCGACGGGGTGTCTGTCTGTGCACAGCCTGCACATCTGGT  
CTCTAACAAATGAATCAAGTAATTCTCAGCTCATGTTGCTACAAGCAGCCAGCCGTAAC  
AGCCAAGTGGTTCGGAGAGAAATTGCTAAAGCCCTTAGCAAAAGCTTT

Sequence 1268

CAGAGTTTCACTCTTGTGCGCTAGGCTAGAGAGCAATGACATGACATCAGCTCACTGCAA  
CCTCCGCCTCCTGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCAAAGTAAGTNGACTAC  
AGGCGTGCGCCACTATGCCCTGCTAATTTTTGTATTTTAGTAGNAGACGGGGTTTCA  
CCATTTTGGCCAGGCTAGTCTNAAATTCCTGACCTCAGGNGATCTGCCACCTCAACCTC  
CCAAAGNGCTGGGATTACAGNCANGAGCCACGGACGCCCCGGCCTCTACTTTTCTACCTT  
GACTAACCTGCTGTAGTATGNGACCACAGAACAGATTCCCTACTTTNANAAAGCTTCAGA  
CCAAAATAAACCAACATTTTACCAGTTTTTAAAAAATTTAACTCA

Sequence 1269

CCGGGCAGGTACGTATTCCAAGGAAGCTGAATGAACCTCTATAAGTATCCTTTATACAGC  
TAAACTCATCTTGATAGTCATGTTTTAATAAATTTAGAACAATTATCAGTAAAAGAAAT  
ATAGTTGGGCTGGGCACAGTGGCTCACACCTGTAATCCCAGCACTCTGGGAGGCCGAGGC  
AGGTGGTACCT

Sequence 1270

CCGGGCAGGTACCCCTGTTGTAAGTCCAGTGAAGGGTCTAGGGAACCTCTCCCGTCTCAT  
AGGAGTTCTGATGCCTCCAGTTGACACACCTTTTCTCTGCCATATGGCACTCTGTCTGG  
ACATCTGGTTTACTATCCTTTTCTTTGTCCATCAGATCTTACCACTTTCTGAAAGTATC  
CTCAGCGACCTCAGACTGTGTGTCCCTTTTCTCAATGGGAATAATCTTAATTCTGTGAC

Table 2

TCCCGCGTACCT

Sequence 1271

CCGGGCAGGTACCTTAGAATCAGCTCACTGTTTGAGAGTAAAGCTCTTACAGTTGTTTA  
CCCAGAAATAGACTGTTTAAATCCCTTTGCATCTCAGCTCTCTGGTGTCTTCTGAACCCA  
CTCACCAGCTGTGGTGAGGATTCTGGCTGGTGGCCATCTTGTGCTCTATAGCTCTAGCCT  
ACAGGAATATTCTGAAGAGATGTGAGGAAAAGGAAAAAAAAAAGTACCT

Sequence 1272

AGGTACCCTAGACTCTCTTTGGAGGACTCCCAAGGGCTCCTGAAGCTGCTTTGCCCTCCT  
TTGCAGAGAGCAAGAGGTGCCAGGGATTTATGTCCTGGCAGGGCAGTGCTGGATCAATGA  
CTTAGTAGGAGGTCTGGAAAGCCTAGTGCCCTTGCTTGAGTCTGGACACACTTTGGAGT  
TGCAGTTACATCCAGGCTGCAGCTGGGGCTCTCCAGCACTTCCTTCAGTCACACACAC  
ATGGATTCTTGTCTTGGTGTCTGGTTTGGGGAACTGACTTAAGTCACTTTTGTGGACA  
TTTTGGAGAGCAGGTTATTTAGCCGGCAACCAGGAAGTACTCCCGCGTACCTGCCCCG

Sequence 1273

AGGTACGCGGGGGACTGTCTATGTAAGAAGTCACAAGAATTAAGATTATTCCCATTGAGAA  
AAGGGACACACAGTCTGAGGTGCTGAGGATACTTTCAGGAAAGTGGAAGATCTGATGG  
ACAAAGAAAAGGATAGTAAACCAGATGTCCAGACAGAGTGCCATATGGCAGAGAAAAGGT  
GTGTCAACTGGAGGCATCAGGAAGTCTATGAGACGCGAGAGTTCCCTAGACCCCTTCAC  
TGGACTTGCAACAGGGGTACCTGCCCCG

Sequence 1274

CCCGGGCAGGTACCTATGCGGAAAGTCCCTTCCTTCAGANGCCTCCACTGANTTNTGAT  
GCCAAGGAGCTTCTGCGNGGCCCTGCACGCACCTTTACAGATGCAGGTGGCTGTTTCCTG  
TGTCAGACTGCAAGCTCCCGTGAGCTNGGTTTCATTGCTAATNGTNGACTTGGCCTGGCAA  
ATAATGACTTGGCCTGGTAAATAATGATTACACGAACAAATGTAAGTAAAGACATCCAGAT  
ACAATCTAATGCATTTTCATGCAACTCGTGTAACCAAGTGAGGTTTTCCAGCTGTTTCAGC  
TTCTATTATAACTTACATTACAGCCCCGCGGTACCTG

Sequence 1275

AGGTACGCGGGAGGCTTGGACATTTTCTCCTGCCCTACCGTCTTTGTGGTCCCAAGTGTC  
ATGCCCCAGTAAATGCTTCCATGCCTGTTCTGAACCCAAAGAACTGTTATTGAATGGGA  
CAGAGACTGAATGACTAAGGAAACCTAGCTGCCTCCAGCCCCACACTTGGCTAAGCTGT  
AATCAGCTCTGTGTGAGGCTGGGCATGGAGTAGGTGTAGTCAATGTCCTCCTCTGTCT  
CGTCTCGGTTGTATCTTCATTTGGTGCCGCTCTCACGGACGCCTATCTTCTCTGTCT  
GTTCTATTGTCTTTCCAGGCTCCTGGCTGNCCTTTCTGTATANCANCCCCAGTGATTT  
TGATAATGTCAGCGNGGAGCCCCAAAGCTGGTCGCCCATNTGTGATAAGTTGGATAGGGG  
ANCCNCATGAAAATGCTTGAGGGGAAA

Sequence 1276

CCGGGCAGGTACGCGGGGAGCCTTACAGGCTTACAATACAACTTGAACAGTCAGGATG  
TTTCACTGCAAATCTTTACAGAAGTGCTCTTCGACTGATAGTCATTGTGGAGGAAAAGAA  
ACAAATGCTGAAGTAGGAGGCAACTTGGGGTTTTAATATGTTCCCTTAAGTTTGCATCCTC  
CCACCTTCCCTGGATGAAAACCACTGGTGATGTGATTTAATCTTTTGGCTGAGTGAGAT  
AGACAAGAGGAATGCAGAAATGGTACCT

Sequence 1277

AGGTACACAGGGCGGGGAGCCTCGGGAGCGGCTCCCTTAGCAGGACCTGAGGGTTTCGGG  
AGAGTCCTGGCTTTGCACTTAGTTTTCCCGCTGCCTGGCTGCCCTCCGTGGCGGTTGTACT  
GCTTTTTATGCAGGATGTAGGATCGAAGGCAAATCATCTTTCCCTACGTCCCCTGCCAA  
CCCCTGCCGCTCTCCTCTATTTGTACCTGCCCCG

Sequence 1278

AGGTACTCATCAGTTGAAGGGTCATCATATGTGTTCCCATTTTTTCTCTGCAGGAAAG

Table 2

TGAGCTTCTGGAAGGCTGTATCTGAGTCCTGTTCTCCAATATTCAATGAATGCTGTCTG  
AATGGATCAATCAAATGGAGCTCT

Sequence 1279

ACTTTACAGTTTACAAGGTGTTATTTTATTACATTTTGCACACTACGGTTCTAGCATAGCCA  
TTGTTATTTTATTACAGACAGAAAAAATGAGGTTGTCTCACTCATATAACCTGGCCT  
CTCTCAGCTCTGGTTGCTGTGGAGAGTAGCATAAGTGATATCTCTTCAATGGTGGTTCTA  
CTGCACAAAGAGAAAAACAAACGTTGTCTTCTGGCCTTCCAATGGCAGAATTTGACCTGC  
TTTTGGCTTTGAAATGCCTCATATGATATTCTTCTAGCAGATTTGTCTAATTATATTTTG  
CTTGGGCTAAGATTAATAATTGTTCTTTTTCATGATCACACATCAGGAGAGTAATAGG  
ACCAGGCACCTGAGACCAAGCCAGGGATTAAAGATTGGTTATGGGA

Sequence 1280

GAATTGGACTCCACCGCGGTGGCGGCCGAGGTACNCGGGCTTGCATAATTTGGCATTAG  
CAACCTCAAAAACCTCTGGAAGGCTTCATTTTCTCCAGTCTCCTGGGAGAGGAGAGGCA  
CCATGAAGGCAGACCCATCCAGAGAACACCTGCGACAGGCTGAGAAGCCATTGGGAGACA  
CACTTCTGAACGCCACCACTGGAAAATCACACATGCTGAAATGGGAGAGTTCCCTGACCC  
CCTTGCAGGATATGTGACAGGAGTGTGGCTCATCTTGTTTCACTGGGAGTGCATACTCAA  
ACCCCTTATGAGACAAAGGNAGTATGCATACCAGAAGGNTGCCAGGGAAGTGGGGGAAGC  
CNAATAATAAACTNAGTTTAAATTTGATCCCTCCAAAGAGTTTAAAGCCGGGTTTT  
TAAATANTTTTACITGGACCAGGTTAAATTATTNAANCCNANNTTGGGTNGTTTNGNAAC  
CCCCCAATTGGAATTCCTTCAATTNGAAATTCATTAGGATTANGGCAAACCTGGCCTT  
TTNANTTNGGGAACCATTTTGAANGGCTTTTTTATTNNNCCCATGCCTTTGCCCTANAA  
AAAAAANTAAAAATTGCCACCCCTTTNAAATTTTTTTTAA

Sequence 1281

CCGGGCAGGTACCTTCAGTCCCCAGCCTCTCACAGTAGGGCTTTGCTCAGTATACCCCAG  
TGCCCTCAGCGTTCTTAGCACTTGTCTGACAGTGTCCAGATCCGATATCAACTGCAT  
GAAATTTGCCAATGAGGGTGCTATTAGTTTCTGTAGAACGTCATCAAACCAGAGTTCCCC  
AAACCTGAATTCCTTCCATTATCCATTGGTTGCATTTTAAATCACGTATTCCAGGACCT  
GCTCTGTACCT

Sequence 1282

GCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACACCAACAACAGCCAAGCTCAGAGCCAA  
ATCAGGAAGGCAATACCATTCACACTGCCACAAAAAGAAATAAAATACTTAGGAACACAG  
CCAGCCAGAGAGGTGAAAGACCCCTGCAATGAGAATGCAAAGCACTTTCAAAGAAATCA  
GAGATGACACAAACAAATGGAAAAAAGTCCATCCTCATGGAGAAGAAGATTAGAGGCT  
ACTGATTAGGAGTTTCAGTGGAAAGTGGGGTCTGAAGCCAAATTGCAGAAGTCTGAGGTG  
TATGCATGCAGTAAGTAAAGAGACAGCAGATAATGAATCTTCTTTAGAACACAGAGCAAT  
TGTTTTCCATTTTTTTTTTTCATGGAAGGGAAGCAAGTGTCTAATATATCATGACAGCC  
CCATGTTGTTCTCTAAACACTACTATTGCATCCTGAATTTTCT

Sequence 1283

GCACAGACGTAGTCTCATCGAGAATTAACACAGGGAGCTTTCCAGAGACCTTTAGCAAAA  
GTGTTCAATACTGAACCAAAACAGAAAGGATGGCCCTTTCTGGAGCTCCTTCCCCAGCA  
CAATCCCGCTACCTNGGCCGCTCTAGAACTA

Sequence 1284

CCGGGCAGGTGGAGGGACACCAGTGAGGCTGCAGGAGGTTCTCCAGCAATATGGCACAAC  
ATAGAGACCACTCACTAGGACACTGTGCTTTTATCATAACCCATTATTGTTGGCTGAGCT  
TGCTTAAAAAACTGAGCAGACTTTAACAACCTGCAGACTTCACTTAAAGTCCAGATTCCC  
AGCTTCTCTTCTTTAAAAAAAATTAATAGAACTGCAATCAGCAGCCCTAGGACTAT  
ATTCCAATATGGTAACAACTGGCTGGATTTCAAAAGCCACTACCTCTCCTGGGTTTGCCA  
CAATCCCCAGTACCT

Sequence 1285

Table 2

AGGTACCTNATTGAGTCTGATCTGGGACCCCGTGTGTTNNGCNTTGGNNGGNACAATA  
GAAAAAANAANANTNTTCTNCTTCTTGCCATCCAAGCCAGTCTGGAGAAGATGGACCC  
CTTACTCTGAGCTGGTCAGAAATATGTAGATCCCTTCTCATGATTATCCATCTCTCG  
TGATCCCTCAAACCTTTCCCTGGAGGATCTTAGCTNAGAAAAATGTCTATCCAGCCAAA  
GAATTAATCACATTACCCAGTGGGTTTTATCCAGGGGAANGGTGGGGANGGATTGN  
CAAAANCTTAAGGGAACCATTATTAATAAAAAACCCCAAG

Sequence 1286

AGGTACAATTTATTTAGAGACACTTTTAACTAAGAAAAATAAGAGAAAGAAAATAGGCT  
CATACTTCTTGGCATATGTCAAATTTGTTTTGACATTCCCTGAAATGTTTGCATTCTTA  
AATTTCCAGTAACAACACTCAGTTTTGGAACACTGGTGAAGTTAAAAAAAATCCCTCT  
TAAAGGACTTCACAAATTTACTTCTTAAACATAGAAAGACTTTTTTTTTCTTTTCCTC  
ACATCTCTTTCAGAATATTCTGTANGCTAGAGCCTATTAGGAGCCACCAAGGATGGGCC  
ACCCANCCCAAGAAATCCTCCACCCACAAGGNTGNGTGGAGTGGGGTTCAAGAANGAAC  
ACCAGGAAGGAGGCTGGNNATTGCCAAAAGGNGAAATTTTAA

Sequence 1287

GGGAAGCTCCACCGTCGCGTGGNGCGGGCCGAGNGTACCGCGGGGAACCTGCNAATAA  
GGGAAATCAATTGTTCTGGGTTCCCGGGGCAAAAGGGCGGGAAGGGCTTTGGGGG  
GAAAGGGGTGGGTNGCNTAAAGCCGCCANTCGTAAGGGTGGCNTCCCCGGGNGAATAAA  
CAATCCCAANGGGCAATTACAAAAACCCGGGCTTATTTGCCCCGGTTTTGGGCTTCGNG  
CNCCGGGTGGGGCCGNTCAAANCCGCATTTCCCGGGTCTTTAATCTTATGGAAGGGAAG  
AACTTCGAAAGGGTGGTTGCCTTTAAAGGGTTTTCTTTAAGAAGAAACCGTTTTANT  
TTCGGAAGNAACGCCCCGTCCACCCTATTACCGGGAAGCCACCGCCCCAAAAGCCGGCCC  
AAAAAACTTGTTCAACAAAGCCCCATTGGGGATTGGTTAAGTTATTAATTGGCCCCCTTA  
AAAAAACCGT

Sequence 1288

NNCCTCCACCGCGGGTGGCGGNTCGTCNNAAGCCACANTNTAAGGATNNTTAANCCTCTT  
TGCNGTGGGNAAGAGNNGGNGTGCTGNAAAANAANAACCNNTTTNCCCATTTGTCCCN  
GCGCTCCACCTCATAGCACAGTTAGGTCTGGCGCCCGTCTAANGGACCAAAGGGGTC  
ATTATTAAGGGTTTGAAGGTGAAATGTTGCTCTTGGGATCCCATTTCAAGGTACCCTCN  
GNNNCCCGCNTCTTNCGAACCTTAAGTTGGGGATCCCCCNNGNGGNCNTGGCCATNGG  
AAATTTNCGNNNTTANTTCNAGANGCCTTTAATTCCGAATTNCCCGNTCCGNACCCTTCT  
TTAGGGGGGGGGGGCCCCCGG

Sequence 1289

CCGGGCAGGTACTAGAAACCTAGCAGGCATTAATAATTGTTGAGGCAATGACTCTGAGGC  
TATATCTGGGCCCTTGTCATTATTTATCATTTATTTGTATTTTTCTGAAATTTGAGG  
GCCAAGAAAACATTGACTTTGACTGAGGAGGTACATCTGTGCCATCTCTGCAAATCAAT  
CAGCACCACTGAAATAACTACTTAGCATTCTGCTGAGCTTTCCCTGCTCAGTAGAGACAA  
ATATACTCATCCCCACCTCAGTGAGCTTGTTAGGCAACCAGGATTAGAGCTGCTCAGG  
TTCCCAACCGTCTCCTGCCACATCGGGTTCTCAAATGGAAGAATGGTTTATGCCAAT  
CACTTTTC

Sequence 1290

CCGGGCAGGTACAGTGACACTGTACGGCCCACTGCAGCCTTGACCTCCAGGCCCAAGC  
TATCCTCAGCCTCCTGAGTAGCTGGGAGCACAGACGCGCTCACCAAACCAGGCTAATGA  
ATTTTTTTTTTTGTAGAGGCAGCATTTCACTACGTTGTCCAAGCTGGTCTCAAACCTCTG  
GGCTCAAGTGATCTTCCCGCTCGGCCTCCCAAAGTGCTGGGACCACAGGCAAGAGCCAC  
CACACCCGGCCTTTATTTTATCCCAACTGTAATAAACAGTTTCCTTCACATGCTCTGTG  
CTTCCCACTTCCATATGTTTGTCTCAAGCTGCTGTTGCCTGCATCACCCTAAGGTTCCCA  
CATGTGTCGGATGTTTACCTGGCGCCTTCAGCTGCAAGCTCCTCCGTCTCCCGCGTAC  
CTT



Table 2

## Sequence 1291

AGGTAAGTCTGCTCTTTCTAAGATTTGCCTCCAAATTGCTACTGAAGCACATTACCTGTCT  
TACTATGAATAATTGTAATTGTTTCTCAGTGAGCATGCTAGCTACTTTAGATATATTATG  
TAATTTAATCTTCAGAATCTGTGACAGAGAAAAAATCTTTGTTTCATAAACGAGGAA  
ACTGAAGTCTCAGAGGGTAAAGTCAGTTCTTTGCCAGCACACAAATCACGTTGTGGTG  
AAACTGACATTAAGCTTGGGTTTCTCTGACTCCAAAGGCCATGCAGTCTGCAAGACTGCG  
GCATTTGTTGGCATTTCACCACGTAGTAGCACTGCAGGCAGCCAGGGAAAGGGGAGCTG  
AGATAGGTGAGGGTGGTCTCATGGAGGCGATTCTGTGTGCTTGCATCCTGGAACCCCTT  
CATTCCCTTTGTGCTGTACCTGCCCC

## Sequence 1292

CCGGGCAGGTACCTGGATGTTAGAGGGATTTGTCTAGACAGGCAGATAGATATGATCCAG  
TGCCAACACTGTAATGCTGGCTGAAATCCAGATGGTTGTTTATTGTTAATAAAATCTAT  
CTTGTGGGTGGGTGGGTGTCAGGCCTTCATCATTATATGGTGCCTGTCAGATTATCTAC  
AGACAGAACCCTGAAAACAGCTTGTGCCTGCCCCGCATTTTGACCCCTTGCCAAGATAC  
TGTACCT

## Sequence 1293

CCGGGCAGGTACTGCTCCAAGAACTCTAACTTCATCATCACTCCGACCCCCACGGTCCGC  
CACTCCTGTCTCCACATACCACTGTCTGCTCGTTGATCCGAAGAATGGGCTCCCGGT  
CTCTACATCAGAACTTGGTTCAATGATCTGAGGGCTGGTGGACTCCTCAGGAGGACTTAG  
CTCTCTGATATCCAGCACAGCACTAACCTGACCTCGCCGGTTTCCCTTTGGGGTATTATG  
TCGTGGGCTAAGGGAGCGGTTGAGATTTGGTGTAAACCCTGTGAGACTCTGGAGGTCTCTC  
TTGATGCTTTGTCTTGTGTTGACTTAATTCTTGCTTCAACCTCAGCCACATTAATTTTGA  
AATGAATGCCCTCCAGGATCTGTGTACCT

## Sequence 1294

CCGGGCAGGTACTTTTTTTTTTTTTTTTTCAGGTGTGAAATATTGCTATTAATAGTGTCT  
ATCTCATAGGGNGGCTAAGATGATTAAATGAGATGATATAGTTTAAGTTCTCAAAAAGC  
CAACAATGATTGTACCTTTCTTTAGNGTTGGGTATCAGCCTCAATTTCTAAAGAANA  
ATCTCTTTTGCCTCCCAATTGTGCTGAATTGGAAACCTTACCTATGTATTTATTTATTCA  
TTCAAAAACCATCTATTATAAACCATATTTGTGCCAACTCTAAGCCAGTTACTGAAAAC  
ACATAAGTCAATAACAGCACAAATCCTTATCCTCCAGGAGTTCATAATCCAGTCAGGGAAA  
AGGAGACACACAGATAAAGAGAGGAGGGATAGAGCGAANACATTGGAGAAATCAGGAGCA  
TACCAACACCCTAATTTTTACAGCAGGGACCCGCGTACCTCGGCCGCTCTTAGAACTAG  
TGGGATCCCCCGGGCTGGCAGGAATTCGATATCAAAGCCTTATCGGATACCCGTCGACCT  
CGAGGGGGGGGGCCCCGGTTCCCAAGCTTTT

## Sequence 1295

CGTACCCGGTGCNGGNNGCATGATGGTGACATGCGAATGGTGATAGTAACAGAAACCAT  
TCAGCCTCTTTTTTCCACTTCTGGATCAGAGTTTATTCTAAATTCAGAAGCACAGTTTCA  
GACATCTCAATTTTGGATTATGAAAAGACAAAAGCAATAATGAAACATCTACATAGTCA  
GAATGTAAATTTGCTCATATCTAGTGTGAAACAACCAGATTTAGTTAGTTATTATGCAGG  
GGTGAATGGCATATCAGTGGTTGAGTGTTCATCAGAAGAAGTTCTCTTATCCGGAG  
GATCATTGGTCTTTCTCCATTTGT

## Sequence 1296

GGAGCTCCACCCGCGGTGGCGGCCCGCCCGGGCAGGTACGCGGGGAGTTGTGGGGAAGAT  
TAGCTCCCTGCTCAGCCTCTCTGATACAACTGGGCAGCTAGTTTTTGTCTTCTGCAACAAG  
ACATAGGTTTATGATGAGCTTCTGTTTCATCTCTGCTGAACTAGGGAAAGTGGTTCTAG  
GTTGGAGGCGTTAGCAGCATTTTGGCTGGGGTATATGGGAGGCAATATGGAAACCATCAA  
ACTTGTCTCACGTATTCTGCAAGTCTGGTGTCTGAGGTGTGCTGAAGCCCTATCCC  
CAAGATGACTATATTTGGAGACAGGATTTTGGAGGAATATTTTCATCTTTTGGTNGTAGA  
AAATTCAAAGCATTCAAGTTTA

Table 2

## Sequence 1297

TCTCCACCCGCTGGNGGCGGTGCGAGGTACCTGCCCGCAGGAGGGGAAGGATGGGCTTCC  
TGCNGNGCTCCNTNGCCCCACGGANNACAANAATACCCNCN

## Sequence 1298

GAGCTCCACCGCGGTGGCGGNCGCCCGGGCAGGTACGCGGGGATAGTTGAAATGGAGGGC  
GGGGAAGTCAGGCAGTGGTTTCTGAAAGCCAAGAACTTAGTAGCACTGTGCCATTCTCTT  
GCCTGATCCAGTGCCATTCCCTTCACTTGATATCTGTTTACTTTAGAGGAGGCAGTTTTT  
GAGAAAGGATCATAAATATCCTGGCCCACTGCCCGAGGAGCTATGACAAGCAAAGGAACA  
TACTTGCCTTGGAGATAGCCTTTTGCGATATTTAAATGTCCGTGGATACAGTAAATNTCT  
TGCAGGCAAGTTTGCTCCAGGAGCATATTTGCAGGACCAAAGCCCTGTAACCGAATAGTT  
TAAATTTTACCGGCCATTNTGGGGATTTCCCTAAATCCTTTTCCGAAAAATGGCCAAGG  
GTTGTGAAGTTGCCCTGTAATAAAAAATAATTTCTATGGTTTTACCCTTTCAAACCTN  
CTTTGTTTCTGGGGCTTATGGTTGGGTATTCTTTTGGATTCCCTTAGCCAATTTAAGGCC  
AAAATTAATTGGGGTAACCCCTTNCGGGCTCGGCNTTCTTAGGAAANCTAAGNTGGGGAT  
CCCCCCCCCGGGGGCCNTGGCAAAGG

## Sequence 1299

AGGTACAGTGTATCTTGGGTGATTTTTTACCAAGTATAGGATATGTCTGAATAGCTACA  
GGCTTATAACCAGCCATAATTCCATATAATTGCACTATTGTCCAAGAGTCACTATTTTGG  
AATTGGTATTANAAATAATTACAGTGACTCTGCCTTAATTCTCCACTGAGCCCCAAAGGG  
TCCGACGAGACACCTCNACCCAAGGACAATTAATCGGACTGTGCCANCTCCCTACCCTGC  
GCAGTTTTCAGCAGCACTGGCGTAAAAATCACATGGACCCCTCAAGGGAGCCCCGGCGTACAC  
ACACAGCCCCGCGTACCTTGCCCCGGGCGGCCGCTCTANGAACTAGTGGGATCCCCCGG  
GCTGCAGGGAATTTCCGATATCAAGCTTATCGGATACCCGTTTCGACCTTNGAGG

## Sequence 1300

GAGCTNACCGCGGTGGCGGCCGCCCGGGCAGGTACTNGGGTTGCGGGCCGAACTGGAAA  
TGTGCTTAAGCTGAAAGTTAACTTTTCTTCTGAGATTATCACACTATCCAAAGAAGTCCG  
GAACCTCAAATGGCTTGGTTTCCGCGTCCCACTGGCGATTGTGAACAAAGCCCATCAAGC  
AAACCAGCTTTACCCGTTTCGCCATCTCACTGATCGAGAGCGTTCGTTACCTCGNGCGCT  
CTAGGAAGTAGTG

## Sequence 1301

NGGTACTGCCATTTCTTTCTTTTTTAAAGAAGATATGTTTACAAAATAGGTGACCAACT  
AAGGTAGGTGTGTGTAAGAGAGGCGAGTGAAGAGAGAGGGGATCCTGAAATTTCTTTTCACT  
AAAGGAAAAAGATAATTTTAGGGATGTTTTTAAAAATATATAACTTGATGAATTTTTTAT  
AGCATGAGTATTATTTAGGTGCTGTCTANACCACTGTGGCCGTATAGGCTATAGAAGAT  
TGGTCTGAATGCTAACGGCAGGGATGAGTGTAAAGATCATCAAACTTATTTGTGGGAA  
GGAGAGCTACTGNACAGGAGCCCGTGTATTACATGACTCCAGTCTGGGCTTGATAGGCCT  
GCCTTAAAAGCATAGCTAGAGGG

## Sequence 1302

CGGGCAGGTACAGGGCAACATCATGGGAATGTGGAGCCTGGGGGNNCNCAGAGTAACCAN  
AGNAACAAGANNTTCAACCAGGTTCCCTCCGGACTGAAGGACCTGCCTTCCCCAGGAC  
CCTCCGGAAGCANNGGACACAGCAGATCCAGCCCATGGACCAATCTGACCACCGCCTGT  
TTTTGTGTGGCCTGAGAGCTAAANAACAGTTTTTACATTTGTTTACAGCTTGTAACA  
NAACATAACAANANGCAAAACCAGAGANGAATACGCAACAAGAGACCATTATGCGGGCTG  
GGCAAAAGNCTTAAAAATTACTATTGGTGGGNCCCTTTTACATTNANAAGTATTTTTGCA  
ANAATTNAAAACCCCCAGTAAGGGANAAAAACATTATGGGAAACCAATATTCTTTCAA  
TGGACCCCTTTGGGANTTTAAAGNCACAAGGGGTTTTTCCATTGGGAATATTGGACCNNC  
NCCAAAAANAGGCCATTAAGGCCAAAAAATTGCNNATTAGANATNATTTACAAGNAAAAAN  
GGGAAAAAAAGGGGAAAAAAGTTACNCTTTNGGNCCNGGCTTTNTTANGAAACCT  
TAAGGTGGGAATTCCTCCCCCCCCGGGGGCTTGCCAAGNGAAAATTCNGATTATTCAAGGNC

Table 2

TTTATTCCGNATTACCCGGNGNGGAACCCTTTGAAGGGGGG

Sequence 1303

AGGTACGCGGGGGAAAACTGTAACCATGATGAAGGCAAAGGAAAGAGCAGAGAGCTCGG  
TAGACAGAGGAAGGAGCCTGTCTCAGACAGGCCCAAAAGTGAGTGTGTGGGAGTTTG  
TGCTAATGTTTCAGTAGGTGGAAGCTCAGGGATTCCACTGTATTCTTAAGGTGAAGTCAG  
AGATTTGAGAGAGGATACCCACTTGAACCATACAGCTGCCATTTTGGGCTGCAACAACGA  
GGCCAGTGTANAAGGAGAATAAAGAAACTGGTGCATTTGGAGTCAGACAAAAGTTCATT  
CATGGCTCTTTTCAGTCTGGAAGATTCTGAAACTTTGGTAACATAGTAATTCCTAAATAAN  
AATAAAGGCAAGTGGATTTAATAAAGGGCAATACCAGTGATTTCAAAGAAAGAGAAATA  
CTGCAAGGTGCTTGCATCATNAAAAAGCAGTCCCATGAAAGAAAAAGATTCTGTCAGAGC  
ATTCCTTATNAAAAACCAGTNCGTAAATTGCCCATTTTCTTGTA AAAACAAAANGGC  
CCCTGACTTAAAGCCCCCTTTAAAAACAGGATNGGATTTTCAACCANAAGCTNCGCCTTA  
AACCTCTTCCCTGTCCATGAAAGTCNATGGGGGGGGAAAGGGNTAATANTTTTTTTTA  
AAAANCANTCCCTTGGTTTTTTTTTCTTTTATTATTNATTCTCCCATTTGGGGAA  
TT

Sequence 1304

GCTCCCGNGGTGGCGGCCGCCCGGGCAGGTACGCGGGTGGCCTACATGGGGGTGCCCGCT  
CATCTCATCTTAAGTGAGCAGTAATTATTCAACAACTATTGTTTTGCCTGGTCATTTTC  
CCTTCGGTTTTGTCAATTACAAAAATTCAAACATTCTAAACAGAGATGACTATACCTCAAC  
TTTGTAAACCCCTCTGGAGTTAGAATACTAACTCCCTTTGACAATCAGAATGAAACTGTTT  
TCAGAACAGAACCTACTCAGAGGAGTTCTCAGATATGATAAACGAAGGTGGAAGAAGGT  
ACCT

Sequence 1305

GACTAAAAAAGAAAGAGCTTCCTCATCTAGTGGGAGCATCGCTCCATCATGCTCCAGAT  
CCCGTTCTGCTCCACACACCTAGGGAGTTGCACTTGTTTTATGTAAGAGCTGCTTTCT  
AAGCAGCCTGGACGCTGAATGGCTTTCTCAAAGTGAAAAATGGGCACTATTCTGATAGT  
CCATCTTTCCATCAGTTCAGTAACTTTCACTGT

Sequence 1306

AGGTACACGTCATGAGGAGAAGACATAGCAGAAGCTCAGGAAAACTATGTTTGTTATGCT  
CCCCCATCCTAGTTACAGCAATACAGCAGGCACCCATGTTTCACAGGGTCACACAGGGAA  
GCACAAACCTTGGTCAGGAGGCCGAGGGGCAGAACTCAGGGATAGCCTAGGCCAGGCCA  
TTATTGGAATTTCTGCAGGGAAGTTAAGGCAGAGCAGGGGAGCAGTTTAGGACTGGCTAG  
TTTGATAATTTTCAGTGGGCTCTAAGCTGAAAGAATGATCTCCAGTTACCTGGTACCTGC  
CCG

Sequence 1307

CCGGGCAGGTACGCGGGGGGGCCGAGTCCTAGGCCAGGTCTGGGGTAACCTGGAACCTCCA  
CCTGGGCTCTGCGCTAGGTCTCTGTTTCACTCCCTCCCCGCGGGGCGCACAGCTCGCGGG  
TCTTTGGACACCACCGGTCTGAGTCCGCGGACTGCCATTTTCATTAGAAGTCCCACTT  
AGAGGTACCT

Sequence 1308

CCGGGCAGGTACGCGGGGGGGTGGATATCCAAATTCAGAATAATATGTCCTATGAGAATG  
GCAGCTGTAATACATATGAATTACAGCTCTTTGTCATTAATAAACCTGACAGCTTTCTC  
TTACAGCATGGTAACAGCAATACACTTAATATGAAGTTTGAGGATTTTCAGGGCACCTAGA  
GTTATCAAGATCAATGAGAGAAAAACCATAAAGTAAATGGGACTTCTTGTTGTTTTGTAA  
ACTGGCTCTGAAGGCAACTTCAAGAACTTGAAAATACAGAAGCATGAAAATATTGTTGA  
AGAATAATGCTGCGCTTGATATCCAAGAACTTTATTTTTTTTTTGAGAAAGACTCTT  
GCTTTTTCCGCCCAGGCCAGAGTGCAGTGGGGCAATCTTGGCTCACTGCAAGCTCCGCTT  
CCCGGGTTCACGCCATTTCTNCTGCCTCAGCCTCCCCAGTAGCTGGGAATACAGGCGCCC  
GCCACCACGCCCGGNTAATTTTTTTNGTATTTTTTAGTAGAGACCGGGGTTTCACCATGT

Table 2

TAGCCAGGGATGGTCTCGGATCTCCTGATCTTGTGATCTGCCCGCCTTTGCCCTCCAAAA  
GTGCTGGGATTACANGGCATGAGCCCCGTCCCCGGGNCCCANGGAAACATTTTTTAAAA  
AAAA

## Sequence 1309

GAGCTCTAAAACTACTGCAATTGCCTCAACATTACCCTTTTATGGACAGTTCCAAATTAAC  
TTATTTTTCTATGGGAATACCACTTTGCTTAGATATCAGAAAAAGCTTCTGATTCAACAC  
TCTACCTTCTGCATCCTGTTGAACACCATATACATCAGTTTGAGTATTACCGACTGCTGT  
AACAAACAAGACCCTCAATTCAGGGAGTTTACAAATTAGAAATTAAATTTGCGAAAGTA  
AAATGTGGATGTTGCCGGACAGCTGGTAGATATGCTCCACATAGTGATTCACTGGCAATA  
TCACCTCCTTCTTGTAGTTTTGACATTGCTTTGAGTCTCAGAACTTCTGTGACAGTCA  
TTATTCACCCGCGTACCTGCCCG

## Sequence 1310

AGGTACTTCTGTCTACAGATCCAGGGTTTTGTCTTTCTGCTCTAAAATATTTCTCCGC  
TNANTNNANCAATTCGTTTTCTTCTCATAACAGTAGACCCTGTAGCCCTCTTATTTGA  
TGCAGGACATTAGGACCTCTTTCCATAAGGGAAGTATTCTTCTCAGCAGTTCTTAGA  
GTCACAGACGGATAACTTTCTTCAAAACAGGACTTCTTTGGGTGCAATATAATGTCGCA  
TCTTGCCGGGCAACTGCTTGAGTGCCATTTGAATGATTTATTTTTCGAAAGTTTGGCAC  
TCTGAAGAACAATATGATGGCAGTGATGGTATCACAGTGACTAGGTCAGAACAAGCATT  
GAGAGTGGGAACTACTTTCCTGATTCCACTGATTCAACTGTGTTCTGTTGGAACCCCG  
CGTACCT

## Sequence 1311

CGAGGTCATAAGTGGAGTGCTTGGANGAGAGAAAGAGGAGAAGAGTGAAAGCCTATTTGA  
GGTGCATTTTGATCTGCTTACAACGTGGGCAGCTGTGACTCANTCCCACTGATCAAAC  
TTTGAGAATTGGTGATAGTACCTGCCCG

## Sequence 1312

GCTCCACCGCGGTGGCGGCCGATGTNCAATTTATTTAGAGACACTTTTAACTAANANAAA  
ATAATGAGAAAGAAAATAGGCTCATACTTCTTGGCATATGTCAAATTTGTTTTGACATT  
CCCTGAAATGATTGCATTCTTAAATTTNCAGTAAACAACCTCAGTTTTTGGAACTGGT  
GAAGTTAAAAAAAATCCCTCTTAAAGGACTTCACAAATTTACTTNTTAAACATAGAA  
AGACTTTTTTTTCTTTTCTCACATCTCTTNAGAATATTCTGGAGNGCTAGAGCTAT  
AGAGCACAAGATGGGCCACCAGCCAGGAATCCTTACCACAGCTNGTGAGTGGGTTCANAA  
NACACCANAAGAGCTTGANATGCAAAGGAATTTAA

## Sequence 1313

CCGGGCAGGTACGCGGGAAGCGTGGTTTTCTGCCCGTGAAGGCCTACAGCCTCATAAGGCT  
TCCACAGTTCAAAGAAGTCCCTTATGTATTGTGGATTAGGAGAAATACATACATGACAGA  
AAATGCTAACTCCAATAACATTTTCTCATTCTTTCATCCAAAAACAATCCTCTATGATG  
TTGAAGGAGTTGTAATAGAAACAAAAGTATATTTAAGAATAACTAGGACCAATTCCAGGT  
AATATATGTATCTATTTCACTCTGAAAGTCACATGACTCCCGCACTCAAGTGTGGGACCA  
TGCACAGTAACTTNCCTTTTAAAGCTTACAGGCATTATGTTTAAAGNAAAAAAATTTCT  
TGGACCACTTTGTAAAGAAACAGGGAAAGCCAGACTTTATATTAGGGACCCATTTGCAG  
TAAGGGTATAGGAAAACCAAGCCAAATGGGGGTTTTTGCAAATGGAAGGGTTGGAGC  
TCAACTCCTAATTACCAAGGAAGGAAAAAAAAGTGGGGGATTTATAGCTAAGGGATCC  
TATCCCTTGGACTCCTTGGAGGGGTGGAGGGGA

## Sequence 1314

ATNGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTCCATAGCCATG  
AAGCAAAGATAAAATTCATCTATACACAGACTGAACCTTGTCTTCATTAACTCTAGGC  
TAAGGGTCATAGCTAATCAGCTACAACGTGAATGTCCTGATAATTGTGAATTAAGTGCAG  
GGCACCCAGCAAAAGGTTTAGTTATAATCTAATAGCTGTCTGTAGAGATTAGCCTAATAA  
AGGGATTTTTTAAAAAGAATCTGGCCGGGCATGGTGGCTCAATCCTGTAATCCCAGCAC

Table 2

TTTGGGAGGCCGAGGTGGGTGGATCACCTGAGATCGGGAGTCCAAGACCAGCCTGGCCAA  
CATGGTGAAACCCCATGTCTACTAAAAATACAAAAATTATCCAGGCGTTTTGGTGAGCAC  
CCACAATCCCAGCTACTTGTGAGGCTGAGGCAGGAGGATCACTTAAGCCTAAGAGGCAAG  
AGGTTGCAGTGAG

Sequence 1315

TATANGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGNCAGGTNCNCGGGACNAGG  
TCAGGAAAGATNTGAAAATCAAATATTTTAATGATTGCTTTAAAAACATCTCTTTATCC  
CACGGCTACAGGACTACATAGATAAAAAATCAAGACAAAAAGTCTGATTCTTCAGGTTGAT  
AAATAATTACAAAGNTGAATTCACAACCACTGCATGTTTTTTAATGAAANTGCTAGAGC  
ATTGATCCAGAAAGAGTNGTATCCNTAGAATGGGAANGGGGACAGCTAGGTGAATCCANA  
TGTGATTGTATCTTGAATCCCCAAACCAATTGAGCCCTTTTTATCCCAGCAGGAAGCAA  
ACTCATTTTCTTTTAAATAAGACTGNCCTCTTTGCATGCATAGNCTGTAATGACCTCAG  
CTGAGACAGTTACATTGCAAAGGGTGCTAATTTCTCCATGCCCT

Sequence 1316

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTAAATGCTGCACTGAG  
AGTGGAAGAAAGACAGAAGCAACAGGGCTGTGGATAGGGGAAAGGGAATGTATTGGGAAG  
AGAGACGCACCATGGAGTCACGTCCCCACAAATACACAGCACATTTCCAGAAAGAAAGGC  
AGGCAGGCACTGGCCAACCAAAACGAGTTTGAGGAAAAATCTATAAAGGTTCTGTGCCA  
CACAGGAAAGACTGCCTGACAAATTAGCTAATGAGGACAAGGCATCTGTCTTGGAGGTC  
TCCTCCAGATGCAAATTGGCCCAAATTTGAGGCCAACTGACCTCTATGAAAAAGCAAAA  
CCAAAGTCAGATTCCTGTCTATCCGGAGAACAACTGTACCTTGATCACACTCCAAAATCA  
AGATAAAGCTTGGCTTTCCAAGGGTCACAATGGGCTTACAATAAATGAGCCCATGTAGG  
AAGAAATAAATATGTGAAGCCCTCTTCCACTTGACATT

Sequence 1317

CNNACTCACTATTAGGGCGAAATTGGGAGCTCCANCCCGNGGGTGGGCGGGCCCCGCCGGG  
GGGTTGGCTTTCCGGNGCTTTGCCTAATGCGGCCCGTGGGCCGTGGGCTTCACGGTGGGC  
CCCTAAGTTTTCCGGGGTTCTTCTCAAGTCTTGGGAATGGGGCAATGGTTTGGGCAAG  
CCCAAGAACCAGAAAAAAGCCCCCGCGTTACCTTGCCCCGGGGCGGGCNCGGCTTCT  
TAAGAAAACCTTAGGTGGGGGATTCCCCCGGGGGCCTTGCCAAGGGGAAATTCGGATTA  
TTCNAAAGCCTTAATCCGGATTACCCCGGTTCCGNAACCCTTCCGAAGGGGGGGGGGG  
GGCCCCCGGGGTTAACCCCAAGCCTTTTTTTTGGGTTTCCCCCTTTTTTAAGNTNGGAA  
AGGGGGGTTTAAAAATTGGCCGGCCGCCTTTTGGGCCCGGTTAAATTCCAATTGGGGG  
TNCAAATTAAGGCCCTTGGGTTTTTCCCTTGGGTGGGTGGGAAAAAAATTTGGGT  
TTAATTTCCCCGGCNTTCCAAACCAAAANTTTCCCAACCAAAACCNAACCAATTNA  
CCCGGAAAGGCCCCCCGGGGGGGAAAGGNCAANTTAAAAAAGGGNTNGGTTAAAAAA  
AAAGGCCCTTGGGGGGGGGGGTTGGGCCCTTTAAAAATTGGGAAGGTTGGGAANG  
GCCCTTAAAAACCCTTTCAAACCAATTTTAAAAATTTTGGGC

Sequence 1318

CCCACTACCCACAGAAATCCAGCCTCACTTAGAATCCTGGAATTACATAAGTTTCTGGTT  
GGAAAGGGATTACATAAATCCCATAGCTCTTCCATTCTGGGTCTGTGATCTTGAATGA  
AGCTATTAAAAAAAAAAAAAAAAAAGCGGGCAGGTCCAACCAGGAGGTCCAAGCTCAGTCCC  
ACCCAGGCCTGGTGTTCCTCGCATGCACAATTGGCTTCCCAGGTTCTAGCAGTGCTCTGC  
CCAGCACAGCAAATGCACTTAGGGAAGGCTCCAGGCAGCCTTAATCTATTTACAATTC  
ACTTTCTGTGTAGGCTGTTCTGGATGGGACCAGGAAACAGCCCCAAGTCAGGAATAAGGA  
CACAACCCCCCTNAGATCCCGAGGGGCTGGCACAACCTCTATGGCTTTATGGCTTTATGTC  
AATGAAAAATTTATTTTATTAGAAAATGTCCAGNTCCTTCGGCCCGNTCTAGAACTAGT  
GGATCCCCCGGG

Sequence 1319

TANGGCGAATTGGACTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGAGACTTT

Table 2

CCCTGCCGGCACATGGACCTGGCCCAACCCTCACAGCCAGTANACGAGCTGGAGCTCTCG  
GTGCTCGAGCGGCAGCCAGAAGAGAACACGCCTCTCAATGGTGCCGACAAGGTCTTCCCT  
TCTTTGGACGAGGAGGTCCCCC

Sequence 1320

CCGGGCAGGTACCCATTCTCTCACACCCACTACCCACAGAAATCCAGCCTCACTTAAAT  
CCTGGAATTACATAAGTTTCTGGTTGGAAAGGGATTTACATAAATCCCATAGCTCTTCCC  
ATTCTGGGTCTGTGATCTTGAATGAAGCTATTAACAAAAAAAAAAAAAAAAAGCGGGCAGGTCC  
AACCAGGAGGTCCAAGCTCAGTCCCACCCAGGCCTGGTGTCCCCGCATGCACAATTGGC  
TTCCCAGGTTCTAGCAAGTGCTCTGCCANCACAGCAATGCACTTAGGGAAGGCTCCAG  
GCAGCCTTTAATTCTATTTACAATTCACTTTCTGTGTAGGCCTGTTCTGGGATGGGGAC  
CAGGGAAACAGCCCCAAGGTTCAAGGAAATAAGGGACACAACCCCCCTCANATCCCGAGG  
GGGCTGGCACAACCTCTATGGGCTTCATGGCTTTTATGTCAATGAAAAATTTATTTCATA  
GGAAAACTNGTCCAGTTACCTCNGGCCGCTTCTAAGAACTANGTGGGAATCCCCCGG  
GGGCTTGACAGGAAATTTTCGGATNTTCAAAGCCTTTATTCCGNTACCCGTCGGACCCCT  
TTNNANGGGGGGGGGGCC

Sequence 1321

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGTGCATTTTAAGAATACAT  
TATCCGCAACAGGCTGGTTCAAGTTAATTTTAAAGTGCAATTCAGGCTTACAGAATG  
TTAAAGTGGATGGAGTCTTATATCAGCTGGTCTCATGGTTTTTCAGATTGCTCGGAGACTC  
CAAAGCTGTTCCAAGGAGGTGACTCAATATTAATTTTTACATGGCTGGGCATGGTGGC  
TCACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGAGGGTGGATCACCTGAAGTCAGGA  
GTTTCGAGACTAGCCTGGCCAACATGGTGAAACCCCGTCTCTCTCTAAAAATACAAAAATTA  
GCTGGGTATGGTGGGGGGCCGCTGTAATTTTCAAGTACTTGGGAGGCTGAGGCAGGAGAA  
TCACTTAAACCCAGGAGGAGGAGGTTGCANTGAGCCAAGATTGCCCATGCTCCAGCCT  
GGGCAACAAGGAGGGAACTCCGCCTAAAAAAAAAAAAAAAAAAGGTCTGCCCCG  
GGCGGCCGCTCTAAAACTTAGTGATCCCCCGGGCTGCAGGGAATTNCNANTTCAAAG  
CTTAATCGATACCGCCACCTCNAAGGGGGGGGGC

Sequence 1322

AGGTACGTCTGTCCATTCTTCTCAGTGTTGATGACATGTTTGTAGCTGCCAGGCCCT  
CCGGTAGTCATTGGAGGTAGGACTGCATTCTACCTGCAAGGAGTTTACAGTCTGGAAAAA  
GCGGTAGGTAACACACCGTGGACTCTTGACTGTGCCCTCAGCTCATCTAAGGCTCTGCAT  
GTTACAGCCCCCTGACCCACCAAGGAGGAGTTATCCCGCTTACAGATGAGGAGATTG  
GGCATGGAGCGCTTAAGACACTTGCCTGAGGCCACACAGCTCCTAAGAGGTGGGACCACA  
GTTACAACCAAGGCAGGCTGTCTCCAGGGCCCATGGCCCTTTACCTTACTTAATGTTGC  
TTTTGTGCCGGAGGGATCAGGCAGAGCCCAGAGAGGGGTGATGTGTTGAAGTAAGCAGGG  
TGCAGGACAGAAGAGGCGGCATTTCAGTGGGGTCTGCCTTTGCGGTTGAGCAGAGGGGA  
Sequence 1323

GGGGGACCTCCTCGTCCAAAGAAGGGAAGACCTTGTCCGGCACCATTGAGAGGCGTGTCT  
CTTCTGGCTGCCGCTCGAGCACCGAGAGCTCCAGCTCGTCTACTGGCTGTGAGGGTTGGG  
CCAGGTCCATGTGCCGGCAGGGAAGTCTCCCCGCGT

Sequence 1324

TTTTTTNTTTTTTTTTNNGGNNGAANGNNTTGTNTNAGCTTTAAATTTTANTGCANGG  
CTTCANAGCTTTACAGCCAGGTCCTTTCTATTTGTTAACTGTCTGGAGTGNGTCTC  
TAACATTTTTATAAACTGCAGCANGGACGGACCTTNTGCTGAACCTCAACGACTTCCTTA  
ATGGCTTCCATCCTCCCACCATNCCATGGAAGTCACTNTTTTCTACACCAACTCATCAG  
CTCTTCCCTGGAAATCTGGAACACAAAATAAGTCTNTCTCTGGACACCTGGGTCAT  
AATATGAAAAACATGGGGNTGGCNGCCATGTTGNGCCACCTGGACCA

Sequence 1325

TCAATAAATGTTAGATGTTTTGTTATTATTATTGTGACACAGGAGGGAATGATGAAGGG

Table 2

AGAAGGGATACTCTTGAGTTGACCAAGAATGTTACTTTAGGGAATAAGAGTTACAGTTT  
GGCTTTGCCATCTCCACCCAATTTTCAGGCAGCCCCAGAAATCTTTTTCTCCANATGC  
ATCTTGTGCATGTCTGTTTTATGTGTTCTCTGTACCTGCCCCGN

Sequence 1326

ATGCCTGTAATTCCAACACTTGGGAGGCTGAGGCGGGTGGATCACCTGAGGTCCNGAGTT  
CGAGACCNCGCTGACCAACATGGAGAAACCTGTTCTCTACTAAAAATACAAAATTAGCT  
GGGCGTGGTGGTGCACACCTGTNATCCCAGCTACTNNGGAGGCTNGAGGCATGAGAATCG  
CCTGAACCCGGGAGACAGAGGTTTGTGGTGAGCCNAGATCGTGCCACTGCACTCCAGCAC  
TCCANCCTGGGCAATGACAAGCGAACTCTGTCTCAANAATTATATACATATANATTTT  
TTTTGGCCAGGCAGCAAGTGGCTCACCGCCTGGNAATCCCAGNACTTTTGGGGAGGCCCN  
AGGGCANGGCAAGATTCATTGGAAGTCCANGGGANGATNNGGGANGAACCCCTTCCTTGG  
GCTTAAACAACAGGGNGGAAAACCCCGGNTTTTCTTACCTTAAAAAAATTCCAAAAAA  
AAA

Sequence 1327

CACNCGCGGTGGCGGCCCGAGGTACCTGCTTGTGATTCTCTGTAACAGGGCTGTCTGTN  
CAGCATGGAAATTATTGATNAAATAAAAAATGGCTATTAAATTGGGACGTGATCCATAATC  
ACAAACAATGGTGGACATTCTCTCTTAGATCTCGGCCATGCATCAAGTCGTTTCTTTT  
TTCCCTTGCCGTAATTTATATTGCGCTGACACTTGGGCTCATTAGTTTATCCTTTCT  
GCTCAANAGGCACCGAGCGNGTTTAGNACCAGCANGGGAAGTTCGGGGNAGGGAAAGA  
AGAGGGAAGAAGATGGATGGGCCCCC

Sequence 1328

CACCGCGGTGCGNCGCCCGGGCANGTACACAGTNGGCGCTGGGGATCAGGGCCAGAGA  
GTGGCCACCTGTTAGAGCTGCATGTGTCTTGGGCCTGGTCTTCTTTCTCTGCTCACTA  
ATGACAGCTGTCCCAGCCTCTTGCAAGCTCTGGCCACCACCTTGCTTGCTGTGATTTT  
TTTTTTCTCACACATGATAAGCTGAGGCAGGAGAATCCGCTTGAACCCGGGAGGCGGA  
GGTTGCAGTGAGCCAAGATTACGCCACTGCATTCCAGCCTGGGCGACAGAGCAAGACTCC  
GTCTCANAAAAAAAAAAAAAAAAANGNGACAAGCAGAGCAAGCGCATCTAGGTGACA  
CCCGGAGATGGAATCGGGACGGCAGGATGAGCATGGGTTTGTGGCGANAAAACCCGGGGC  
ANTAATGACATACAATGCANATTTGCCANAGTCAGCAAAAAGCCTATGTGGTAGAAATTG  
CCAAAGAACAGAAAA

Sequence 1329

NAATTTTTTAAAGGAATCTCAATTTGTGTTTTCTATTGTGTCATTTTAATATTATGTAGT  
CATCTAAGATATACTAAAGGTGACCACAATTTTAGAATATGCATAGCAGAGATTAATATG  
GAGTTGATTATCAACAGAAGCTAAATGAATAATTATTGACTAATTTACACTAGCCTGTC  
CCCGAATCCATTATTTTGAATCATCTGTGATACTTATTTCTTCCATGAGAAGAGGAATT  
TAGAACTCTTATTCCATTTATTTGTAGTGGGTGAAAGTAACGCAAGCAATTTTCCATA  
AGCACAATAGCTTTTCTTTTGAACACCGTAAATCTGAAATACTTCTGTCTGTCTTAAC  
AACATTCTGAATGATCATCTTAAGAGCTGGGTTTCCATTGTGCTTACTAGTCTGTAAG  
CACAGCAGTTGCTTCAGTATGTATTGCTACTACTGCCTCGTTCCTATATGGNAGAACCTC  
ACCACCCCAAATAAGTCTGGGCAACCCCTTNGTAANGAAAAAAAAAAATACCGTTNCTATA  
ATNCTTATAAACCAAAGCACTACATGTTTTCAGTTTCAAGAACCCAGATTTTCTNNGAAAG  
AAAAA

Sequence 1330

TTGTTTTGCTTTAAATTTTAAATGCAAGGCTTCANAGCTTTCACAGCCCAGGTCCTTTCTT  
ATTTGTTAACTGTTGGAGTGGTGTCTCTAACATTTTATAAACTGCAGCAAGGACGGACC  
TTCTGCTGAACCTCAACGACTTCCTTAATGGCTTCCATCCTCCACCATTAACATGGAAG  
TCACTNTTTTCTACACCAACTCATCAGCTCTTCCCTGGAAATTCTGGAACACAAAGAAAA  
TAGTCTCNCTCTGGACACCTGGGTCTAATATGAAAAACATGGGGCTGGCAGCCATGTTG  
TGCCACCTGGACCAAACAGCAGAGACTGCTGGTCCATGACAGAAAAGGAATAACTCAGAA

Table 2

ACACTGAGGGAGTGGATAGCTGGAAAAGAGGCCGAAGACAAAAGAGAGAAAAGAAAGAGTG  
TCCTCCTGGCCCCATCCATGCAGCNTTCTAGCCCAATCCCTGGCTCCTAACCTGGATTCC  
GTANACAGCCTAAAATCCTTCCAACNGAATTCCTTTTTT

Sequence 1331

AGGTACGGTAATACATACACCAAGAACAGAGACAATTACAAAAACAAGTAAGTGTGATA  
TAGGCGGACCCACAAACAAGAAATGTAAACATAATCAGATAGAAATTATCTGCTAAAAATAC  
ATTTGTCTATGCCAATAGGCATTTTACTTAACAATAGGTTATCAAAGAGTCAATCTTTGA  
GAACATATTTTCATTTTTCTCTTCATTATCTAAGAAATGTGAGCTATTGAAACACAATAT  
ATCTTAGGCAACTTTTTTTTTCTTTCCAGAAAATCTGGCTCTGAACTGAATACATGTAG  
TGCTTTGGTTTATAAAGATTATAGAACGTATTTTTTTCTTACAAGGGTTGCCAGACT  
TATTTGGGATGGTGAGGTTCTACCATATAGGAACGAGGCAGTAGTAGCATACATACTGAA  
GCAACTGCTGTGCTTACAGACTAGTAAGCACAATGGGAAACCCAGCTCTTAAGATGATCA  
TTCAGGAATGTTGTTAAGACAGACAGGAAGTATTTTACGATTACGGTGTTCTAAAAGAAA  
AGCTATTGGGCTTATGGAAAATTGCTTGCGTTACTTTCCCACTCCAAATAAATGGGATA  
AGANGTTCTAAATTCCTCNTNTCATGGGGAGAAATAAGTTTCCAGATGANTCCCNAAAT  
AATNGGNTTTCNGGGGGCAAGGCCTNNTGGTNAAANTNNNCNNANAATTTNTTNCNTTNN  
NNCNTNTTGGNGGGGNAANNNAACCCCCNTATNAAANNCCNGNNGNGGNNCANNTTTT  
AAAAAAGG

Sequence 1332

AATGTTTATACTCGGCATTTGTAATACAATAAAACATAAAATGTTTATACTCGGCATTTG  
TAGTACAATTTATATTTTAAAGTTTCTGATATTTGATGTATCAGATGTTGGTGCTTATC  
AGATAAGGAAACAAGGGTCCGAAAGGTTTCTTAACTTCCAAGAGCTGAGCAGGCTGCTAA  
CCTGGTCTGCTCATCTCCTAGTGGGATTTTTTTTTTCTCTTACATGGCATACTTCTCT  
GCCATCATTTTTAAACTCTGAGGGGGAAAAGGAAGCTNAATGTTAACATGCTGTGA

Sequence 1333

CCGGGCAGGTACCAATAAGATAGTTGTTTAAAGACTATAGCTCTCTAAAGAGTAGTCTTTT  
AAATTTAGAGAATTTCTTTATCTCATAAGTGACTCAAGCCAAAAAGGCTTTTTTCATGGA  
AAGTCCCTGAGGTAACTTTCCGGGTTTAGAATACGACAGGCAAAATTTGGCATCTTTTTT  
AAATGGGTGCGAAAGATGCAGCCTTCATGATCCTCCCCAAAATTTACTCCCAGAAATAAG  
CTAAGATAGCAGATCTCTGTTACCACAGGCGGTTAAGGATGGTGATGCTGGTCTCCCTAT  
GAGCACATGGACACGTGGCCACATGGGGGTGCCTCTAGTCACAGACCTGCCAACCTGTGA  
CGCCTGTGACACAGGGCAGGCACTTCAGGGATTAGACTTTCCAGCACTAACAGGCAAC  
AAAGATGGAAGCAACCAGAAGCCCTTCATGGATAGAACTCCTTTTAGGACAGACTCCAC  
TGACAGCTTGGCACATTTGGGG

Sequence 1334

CCGGGCAGGTACGCGGGGAGACTTTCCCTGCCGGCACATGGACCTGGCCCAACCCTCACA  
GCCAGTAGACGAGCTGGAGCTCTCGGTGCTCGAGCGGCAGCCAGAAGAGAACACGCCTCT  
CAATGGTGCCGACAAGGTCTTCCCTTCTTTGGACGAGGAGGTCCCCC

Sequence 1335

TTTGGCTCACTGCAACGTCCGCCTCCCATGTTCAAGCGATTCTCCTGCCTCAGCCTCTCG  
GGTAGCTGGGATTACAGGCATGAGCCACCATGCCCGGCTAACCTTGATTTTCAGTANAN  
ATGGGGTTTCTCCATGTTAAGAATTGAGAGAGCCACTGAAAGGTGAGTCAGGAAGCATCA  
TGATCACAGCCGTGCCTTAAAAAGCCTTNTCCAGCAGCAGTATGGGAGATGGACTGAAAG  
AAAGAGTNGCAGGACCAANAAAGTGAGTCAGTGGTGCAAAAGCAAGGGAATNTGCAGCAG  
ANACAACCAGGACCTNTGCCATGCCAGAAGGAATGGGGATNAGAGGGGAGGTCTGGGATT  
TCAAAAAAGCAAGTTCATTAGATGANCTTTGATANGTTAACNGGGNTTAAATTTTTGGNG  
GAGGGGANAAAGGNNNGNAATNCNATTGGGNTAACCTTAAAGCTTTNTNGNTTTTTAGG  
GGCCTAAGGGGNGAGNGGTTGNTGGTCNCCCNAGACCCGGAAAAAAGAAAAA

Sequence 1336



Table 2

CCGGGCAGGTACAGATTTCTTTCATGTTAACATCTTATGTATCCACAATATATTTACCAA  
AACTAAGAAATTAACATTGATATAACATTACTAACTGAAGTCTTATTTGGATT  
CTCCAGTTTTTTCACGAATGCCCAATTCTGTTCCAGGACCCAGCCAGGATACTGTGATG  
TTCTCAGTCACCATGACTCCTAAGAGCCTTCTCTTCAGTGGTGCATTTACAGGGTTCTA  
AAACACACTTTCAAACCAGCAGAAGGAAAGGAAAAAGTTAACAAAACATATGGTAAAT  
AGGATATATAAAATAAGATACAAATAAGTCCTAAAGTAACAGTATGAATAATAACTATAA  
ATAAAATGTCAGTAGCTAAATAAAAAGGCAGAAAATATCTAGGCAGAACTCTTAGTCTT  
GATACTGAGAACTGTGAGGAATATACTTAAAAGGATAGAGAAAGACTGAAAAGAAACAGA  
CAGATAAATGATATAGCAGGTAATATGAACCAAGAAAGAGTAGTGATTTAACAGCTAA  
AAAATATAATTGAAGGTAAACCATCATTATTTATCAAAGAGAGATATAGCCATATGATA  
AAATGCACAAACACCA

Sequence 1337

GGGGGACCTCCTCGTCCAAAGAAGGGAAGACCTTGTCCGGCACCATTGAGAGGCGTGTCT  
CTTCTGGCTGCCGCTCGAGCACCAGAGCTCCAGCTCGTCTACTGGCTGTGAGGGTTGGG  
CCAGGTCCATGTGCCGGCAGGGAAGTCTCCCCGCTACCTGCCCC

Sequence 1338

CCGGGCAGGTACTCATCTTAAGAAATTAAGATAATCCGTAAATAAAACAATGACAATA  
TAATAGTTTAGAGAGTTAAGATTTAGGAAGTAGTAGATAAAATAATTATCTGTGTTATGC  
AAATATAATCCTTAGAATGCAATATTTGATTAATAGGAGTTGTCCTATATGTCATTCATA  
AACTTGTAGCAGAGAGAAACCTCTGCATAAGCTCAGGTGTTCAAGTATGCAAGAAACACA  
GTTTTCTGTATTTTGCTCTTGCTAAACTTAATTTGTATTCTGGGCCCTGGTTTCATCAAG  
TGGCAGAACTCAATCTCAGTCAGCCCTAACTGACTATCCTCCAGGACTCTGTCTACAAA  
ATGCCAGGTGGGGGGCCATCTGGCCCTCAGTGCCATCAGCCACCCCTGCTGGCACCCACT  
GAGACTTCCTGCTCTGTGGTCACTGGTCTTGANGTTGCCACTGCAGCCTCCTTGCTCT  
CATTCCAAGGACACATTAGGCCTTCTGGCTCTATGAAGTATTTTTCACTGGAGAAAATTT  
TGCTTCTGCTGTACCTCGGCCCCGCTCTAGAAGTGTGGGATCCCCNNGGGCTGCAGGAAA  
TTCGATATCAAAGCTTATCGATACCCGTCGACCTCGANGGGGGGGCC

Sequence 1339

AGGTACTATCCTAGACAAGCTCTGGGAGTGTTACATAACGTATGGTAAGTGTGCTACATG  
GCCTTTCTGAAGCCCAAACCATTTTGCATTATGAAAATACCTGGCCCCAGGAATTTGAGA  
TAAGGGATTGTGGACTTATATTTTAAATCTGTAACCTCTATAGACAGTAATTTGATAGAG  
CCAGCTTCATGGAGTTGTAAATATTACTGGGCTAGGGTCAGTTTCCTCATTTTAGGCTTC  
CTTTAATCCAGTCCAGACACCAAATTAATGTCTTTGTGTAGTCCCCCTTCAAAGCCTCTT  
GCAATCCCAGTCATGCTTCAGGGTAGGGATGATCCCATTAATCCAAGGACCTGTCCCTAG  
TGATAGAAGGAAATG

Sequence 1340

CCGGGCAGGTACTTTAGGAGACCCAGGCGGGCAGATTGCCTGAGGTCAGGAGTTTGAGAC  
CAGCCTGGCTAACATGGTGAAACCTGTCTCTACTAAAAATACAAAAATTAGCCGGGCAT  
GGTGGCTCACGCCTGTAGTCCCAACTGCTTGGGAGGTTGAGGCAAGAGAATCGCTTGAAC  
CCAGGAGGTGGAGGTTGCAGTGAGCCGAGATCGCGCCACTGCACTCCAGCATGGGCGACA  
GGAGCAAGGACTCCATCTCAAAATAAAGAAAGAAAAAGGAAAACAAAGAAAAGGAAAAAGC  
TTATATTGGAACCTTCTCTAAAAAAAGGAAAAAAAGGAAAGCCTGGATGCCACACCAAA  
ATTCTTAAATTTTGGCAAGGTCCGATCAAATTTAAAGGGATATTTTATTTTGGCATCACC  
AAAATAATTTCTTTACTTCCCCCAAAAAATTCAATAAAAAAGGTTTCAAATTAGCCAA  
CTTTTTCTTAAATTGTGTTTTAAAAATGGTAATCACCAAAATTACCACCGTTGTTCCCCC  
AACTTTCTTTTCCAAGTTTATTAATTTCTTATTGTGTAAGTNGAAGGGTTTTACCC  
TGAAGGTGGAGGCCAATTAAGAAGAAGTTGAAGCCTTCAAGACCCCTGCCCCTGGGANA  
AAGAGCCGTNGTTTCTTTTCTTTAANAGGTTCTTGGAGGGAAATTGGGGTTGGGGGGGG  
CCANCAAAAANTTNCNTCNTCCAAATTCNNTTTTTTCTTTTTTCCCCCTCATTCCCTT

Table 2

GGANCCNTCTTTAATTTTC

Sequence 1341

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTAAAGACAGAGTCTTGCTCTGTCAACC  
AGGCTGGAGTGCAGTGGCACGATCTCGGCTCACTGCAAGCTCTGCCTCCCGGGTTCACGC  
CATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGGTGCCCGCCACCATTGCCCGG  
CTGATTTCTTTTGTATTTTAGTAGAGACGGAGTTTCACCCGTGTTAGCCAGGATGGTC  
TCGATCTCCTGGACCTCGTTGATCTGCCCGCTTGGGCCCTCCAAAGTCTGGGGATTAA  
CAGGGTGTGAAGCTTACNCGCGCCCGGCCTATTNTCCTTTGTACCTTCGGCGCGCTCTA  
NAAACTAAGTGGGGATCCCCCGGGGCCTGCAAGGGAATTCGATATCANAGCTTNTCGAT  
ACCGNTCGAACCTTCGAGGGGGGGGGCCCGGTTACCCAGCTTTTGGTCCCTTTAGTGG  
AGGGGTTTAATTGCCGCGCTTTGGGCGGTNAAATCNTTGGGTCAATAGGCTTGTTCCTCC  
TGTTGTNGAAAAATTTGGTTNTCCCGGCTTCAAAAAATTTCCACAACCAACNATTNC  
CGAAGCCCGGGGAAGCCATTAAAGGTGGTTAAAAAGCCCTNGGGGGGGTGCCCCATAA  
TTGGAAGGTNGAAGCCTTAAACTTCACCANTTTAAATTTTGGCNGTTTGGGCGGCCTTNA  
ACTTGGGCCCCGCTTTTCCAAANTTCCGGGGAAAAAACCTNTTNGNNGGCCCGCNC  
CTTGCNATTTTNAANTGGAATTNCGGGCCCAAACCCCCCCCCC

Sequence 1342

CCGGGCAGGTNCCTTCTGTTTTACAGAAAGCCTTTGGGAACCTTGAGTCAAAGCATTACTA  
CTTGGGATTTTATCTAAGGAAGGTAATGAAGATTTGAGGGGAGACAGTTAGTTCAATAT  
GAAAGAGGAATTGGCTTAAACACAATTTTACTATGGAATTTTACAGACATAAACAGAG  
TAGAGAAACAGTATAGTGAATCCCCCTTACACATNTCCAGCTTTCACAGTTACCAACT  
CATGACCAATCTTATTTCTCTTCCCTAGCAATGCTGGTCCACCTTCTCCCTCAGATTAT  
TTTGAAAGCAATCTCAGGAGGTGTATTAATTTTATGTTTCAAATATTCTGNGTATAT  
TCTCTAATAGGATTTTTTAAAAAAGNAAAAACCTAACCTCAGTGGCATTTTTTTACACCT  
TAAAAATATGTTAACCAATTTCTTAGTTATCCTTAAAAAACCTTAGACCAGTNGTTC  
CAAAATTTTNCCTGGATCCGACTCCATGGAATTTTTTTTTTTCGGTNTTGGTTTGGTTT  
CAAANTTAAGGAATCCCAAATTAAGGGTCCCAAAAAAGNC

Sequence 1343

AGGTACTTNTTCTTTTTTTTTTTTTTTTTTGGAGACAGAGTCTCCCTNTGTCAGCCA  
GGCTGGAGTGCAATGGCACGATCTCGGCTCACTGCAACCTCCGCCTCAACCTCCTGAGTA  
GCTGGGATTATAGGCGTGTGCCACCACACGTGGCTGATTTTTGTATTTTAGTAGANACG  
GGAGTTTCAACACCGTTNGACAGGCTGGTCTCGAACTCCTGACCTCAGGTAATCCGCCTG  
CCTCGGTCTCTCCCAAGTGCTGGGGATTGCAAGGCCGTGAAGCCCTNTGCGCCCCGGCAT  
TGAAAGCCATNTTAAAGAANAGTTTTCCATTGNTTTAAAGGTTTTCANAGTTTNGTTG  
AAAAATTTCCATAACATTCTCCTTTCTTGGGGCTTTTTAAATTTTGGGCNCTGTAATTTCT  
TTCCTTTTATGCCAAAACCTGGGCAGAAAAATTTTTTCATTATTCCTGGTATTATTCAAGT  
CCAAGTGGCCCCATTTTTTAANCCTTGTGCCCCCTGGGNNGCCGGGGTCCATTTATTGG  
NACCCTGGCCCCCGGGGCCGGGGCCCGCTTCTTAANAAACTAAGGNTGGGGAATNCCCC  
CCCGGGGGCCTGGCAAGGGAAATTTNCGAATTATTCAAAAGCCTTTATTTTCGGATTACCC  
CGTCCGGAACCTNNGAANGGGGGGGGGG

Sequence 1344

CCGGGCAGGTACCCAGGTGGGGGAATGAAGACAAGAAGAAGGCAGATTTCCGCATGGGG  
TCCTGGGAGAGCCACCGCTCCAGGAATGACACACACTGAGCGGGCTTAGAGGAGGGAG  
GACTCAGAAACCAAAGCAGTTGGCCAGGCGCAGTGAATCACATCTGTAATCCCATCACCT  
TGGGATTACAGGCATGAGCCACTGCATCCAGATCAAAGTTGGGTTTTGAAATATAGGCAT  
CAGTTCTCTTTTTTAACTAAATGGACATCTAAGATATTCCTGACACCCTCATTCAT  
ACAAATCTGCTCTTACCTTGCTCCTGCTTCTGCATAGCTAGTAGTCTGGAATGCATGACA  
ACTCTACTGCCCCTGCCTCTATCCAGGCAGAGACAAAGATAACCTGCCAGGAACAAATC  
TTAGCCCCAGGCTGATAAAGAATAGCTCTACCTAAGTATGCACCTGTTGGAAAAGTTGGC

Table 2

AGGGAGGGGATGATTAAATGGGAGAATATGAGAAAGTGCTTCAGAAACAAAGCTGTCCAA  
GGGCAAAGCAGTCTTCTTGNTCGATCTCTCTTCCCTTGACGCTGCTCCNCACCTTGTCCTAA  
CCTCGTAGGCATTTTCTATCTCCCATTTGGCAANGGAGACAAACAGTTGGCTCAAATTACC  
TGNCAATGNTTGTNGATAATGAGANAATGATCCTTTACCAATTACCACCAAAAGAACCAC  
CAGGCCCTGNTTTTTTTTNGGNTTTT

Sequence 1345

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGAGTAGAGACGGGGTTTTT  
CCACATTGGTCAGGCTGGTCTCGAACTCCCGACCTCAGGTGATCTTCCCGCTCAGCCTC  
CCAAAGTGCTGGGATTACAGGCGTGAGCCACTGCTCCCGGCACTGCTAACCTTAATACA  
ATGCAATATGTGCTATGATCATTGACAAATAAATGGTTAAGTGAACNCGGAGGATGGAGA  
AATCATTTCAATGAAAGGGGGAGATCTGTAAGGTTTTACAGAGGAAGCAGAATTTAAGCT  
GGGCCCTGCAAAGCAAGATGGGACTNTAGGCATNTGGACAGAGGTAACGGTGAGAGCAA  
ATGCCTATGTGCTTCAAGTATGGTCAGGGCACANAATTCAGGACCCATGGACAGGGGCA  
CAGGATGCCCAAGGAAAAGAAAACACAGTGAGACCAGAAGCTGGAAANAACTCAAAGTG  
GAAAGCCCTGGATGCC

Sequence 1346

AGGTACGCGGGGAGCTCATTCCACTGAAGGTGATTGTGACAGATGAGTTTCAATAAATAA  
GCCCCTTCACATGACATACATGTGAAAAATAACTTTTGGTTTATAATAAATGCTTGTTT  
TACACATTCTTATCCTATTTGGTTATAATAAATCTTAAATGTAACAATTATACTTCC  
AGAATGTGTTATTTGAATTACTTGGTTATTTATCTTTTTTATGAGAATTTGTTCCCTT  
CTCATTTTCTAACACATTTAAATTGATACTGTTTGAGTATAAACTTAGTATTTCCCTTC  
ATGCTATAAATAAGTACTATCTTTTTTTTTTAACTTTTCCATTTGTTCTTTTGTGT  
AGACAGGGTCTTGCTCTGTCATTAGGCTGGAGTGCAGTGGTGCAATCACAGCTCAGTGC  
CGACTCCACTTCCTAGGCTCCAGCCGATCCTCCCTTACTTCTGAGTAGCTGGGACCATA  
TGTGTGCACCACCACGCTGGCTGATTTTTTGGATTTTTTGTAGGCATGGGGTTTCACCAT  
ATGCCCCAGGCTGGGCTTGAACCTTGAGCTCAAGCAACCCACCTACTTTTAG

Sequence 1347

AGGTACTTTTTGATCAACACCTTCCCTTTCTCCATNCNCATTNNNCCCCAGCCTCTGACA  
CATTTTCACTCATATTAGGTGACATTTAAATTATAGAACTAATGGTTTTAGTATACAAC  
AAGCAAATAAACATCATTAAACGTTAAATACATTTATTAGAAAGTTGACTAATTAGGGAT  
AGAAATAAATGGGCAGCATTTTTGGCCAGAAAACAAAGATAATGATTATTTCAATTAC  
CAGACCCAAGNGATTTGAAATGGAAAGGTTAGGCCTAAAATACGTTATTGAATTTATGA  
CAGCCAGNAAATTCAGGATCATATTTTCTGATCATTGTNAAGTAATATAAATTATTGAC  
CTAATATGTAACCCAANCAATAATATTCTAGCTACCATTCAAATTTTATTAAAGGNTT  
TAAAAAATTAACCTTCTGGGTTAAATGGGAAGATTCCAACTGAGGATTGCATTTAATGG  
GATTGAGGGGGAAATGTTAATGAGGAAGGTATATTGATGAAAAGCCCCAAACCTTAAAT  
CAAAATAAGTAATTTGCCCAATATTAAGTTACCTTCTATTAGGAAAAAACAGTNGAAA  
GTTNTTATCACTTTTACNAAATTTTGGTGACCAATGNTAAGNATGGAGTTNTTCTTAAT  
TATTTTAAAAA

Sequence 1348

CCGGGCAGGTACTAAAGAATGTGCATTTATTTGTGGGGAGGAGAGGAGGTCTAAATAGAC  
AATAAACATATAAATATTAATATTGTGAAAGTGGTATGAAGAAAAATAAGCATGATAAG  
GAGAGAGAGGTGTTCCCTGGCTCTCCAGAGGGCTGAGGTGGAAGAAAAGGACTCCTGTTT  
TAGGTAAGATATCAGAGAAGACCTCTCTGATTGACTGAAATGTATGCAAAGGCCTGCATG  
NAAGCCAGGGGACCATGCCGTGCTGACATCTGGGGGGAGGATTATCCTCACCAGAAGGGG  
GAAAAAGGGGAAAGTGCCAAAATGCCCGTTGAGGTTGGGGAGGGACCCATGTTTTGGTTAT  
GTTTCAGGGGAGGGAAACAGGGGAGGCCAGTTGNGGGCCTGGGAGGCAAGGTTTTCAAGCC  
CATGGGGGAAGGCCANAAAGGATTGAGGATCAAAAGGAGAATAGTGGGGGAGGATCACCGG  
TAAGAGAATTTTATGGGGCCANTTGGTGAGGGATTGGTGGCNAAGCATTGAAGAAGAC

Table 2

TGGTTTGAATGCCTTTAAAAACCAACCAGCCCATTTTAAATTTTAAATATCTTCCATG  
GAATTTTGTGGGT

Sequence 1349

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGGGTGTGGTGGCTTATGGAGTCCCTAACGT  
TTGCACAAAATGGTTGCTACATTCCACACTCCCATGTGCCCTGAGCAACCTCCAGGGAAA  
CTTCAGATACCGTGGGGCTTGGCCTGCCAGCTGAGCTGACCCAGCGACCCCTTCTATCAC  
AGCTTTGATCTTCACTGGGTGGGAGCCTGTCTGAATCTAAACATCTGCCTCTCTACTGC  
CCACCCCTTCGGCATTTCTAGCTCTCCCTGAAGGGTGCAAACATGCATGCAGTTACTCA  
AACAGAATATTTATCCTTAACTCCCTGTCCCTCACAATTTCTTTTAAAAACAATCCACTA  
TTGTCTACCCCCGCCCCGCATCACCCCTTCATCCAGGTGCCCATTTCCCTTCTCTCTAGT  
CCTGCAATACCTAAGCATCGATCTGCCCTTAGCACATCCATCCCCGCCTTATTCTCCACG  
CAGGAGCTGAGTGACCTGCACAAAAAATCCCCCTGCTAAATACGGGNACCTCGGCCGCTC  
TTAGAACTAGTGGGATCCCCCGGGGCTGCAGGAATTCGATATTCAAAGCTTATCGATAC  
CCGGTCGGACCTCGAGGGGGGGGGC

Sequence 1350

CCGGGCAGGTACAATGGCTTGATCTTGGCTCACTGCNNNTGNGCCTCGCANGAANNAAN  
CNATTCTNCTGCCTCAGCCTCTGGAGTGGCTGGGATTACAGGCGCCCACTTCACGCCC  
GGCCAATTTTTGTATTTTAGTANAGACAGGGTTTACCATTGTTGGCCAGGCTGGCCTC  
GAACTCTTGACCTCAGGTGATCCACCTGCCCTTGGCCTCCCAAAGTGCTGGGATTACCGTC  
GTAAGCCACCGTGACCGGCCACAAAGAGTCTTTTATGGGAGNAAAATAGAGGAATGGGA  
ATTTAAAGCCNGATAAAATTCAAATTTACTGGCTCATTAAAAATGGGCCCATNGCTTCC  
TTTTCTTTAACAATGGTTCCCCCTTTACCTGGCAAGAAGGGCCTATTATTATTCTTAA  
AGAAATGGAGGNAGGAAAAAGGCCAAATTCACCACCTNGTTTGGCTTTTATTGAAGCC  
AAATTCCTTACCAATTGAAANNTACCAANAAATTCCCCCCTTTCTTGAAAAAATTTA  
TTNAACAAATTTTNGTTTATTTTNAAGGANTGTTGTTAATTGTTAAAAATTTTCCCCC  
ACCCTTGGTGGTTTACCTTTTTTTTATTACCAAAAGNCCC

Sequence 1351

AATTGGACTCCACCGCGGTGGCGGCCCGCCGGGCAGGTNCTTTAGGAGACCCANGCGGGC  
AGATTGCCTGAGGTGAGGAGTNAGANACCAGCCTGGCTAACATGGTGAAACCCTGTCTCT  
ACTAAAAATACAAAAATTAGCCGGGCATGGTGGCTCACGCCTGTAGTCCCAACTGCTTGG  
GAGGTTGAGGCAAGAGAATCGCTTGAACCCAGGAGGTGGAGGTTGCAGTGAGCCGAGATC  
GCGCCACTGCACTCCAGCATGGGCGACAGGAGCAAGACTCCNTCTCAAAATAAAGAAAGA  
AAGNAAACAAAGAAAAAGGAAAAGCTTATATTTGAACCTTCTCTAAAACAAAGAAAAAA  
AAGGAAAGCCTGGATGCACACAAAATCTANAATTTTGGCAAGTCGATCAATTANAAGGGA  
TATTTATTTGGCATCACAAAAAATAATTTCTTTTACTTCCCCCAAAAATCAATAAAAAA  
GTTCAATAGCCAACTTTTCTTAATGTGTTTTAAATGTAACCCACCCAAATACCATTG  
TGTCCCCCCAACTTCTTTCCAAGTTATAATTCTTATTGGTGTAAGGTGAGGTATTACCT  
GAAGTTGAGGCCAATTACGAGAAAGTTTGAAGCCTTTCAGACCTTGCCTGGAANAGGAGCG  
TGTTCTTTTCTTTANGAGTNTGGAGGGAAATGGGTTTNGGGGGGCACCAAAATTCTNNT  
CNAATCTTTTTTCTT

Sequence 1352

TTGNACTCCACCGCGGTGGCGGCCCGCCGGGCAGGTACGCGGGCGGNGAGCCNAGATTGC  
GCCATTGCACTNCAGCTGGGCAACAAGAGCAAACTCTTCTCANAAAAAAAAAAAAAAAA  
AAAANCNGAANGAGAAAAAGTGTTNTAGTTTGAGCAATAAATTGTATGACCACTCTACTA  
AAATGAGTAGCTTTTGATCGGTGCCTGAGTTTATTTCTTCCCAACCATGTAGATTCCATT  
CTCAGACCCGGTGAGCCGAGATTGCGCCATTGCACTCCAGCTGGGGCAACAAGAAGCAAA  
ACTCTTAANGTGANANGAAAAAGAAAAAANAGGGTTCCCTNNGGCCNNTNTAAA  
AACTAGGGGGGATCCCCCGGGGCGTGGCANGGGAATTCGATATCAAAGGCTTTATTTCGN  
ATACCGNCCGACCCTCNAAGGGGGGGGGG

Table 2

## Sequence 1353

TTGGATCTCCACCGCGGTGGCGGCCCGAGGTACTTTAGGAGACCCAGGCGGGCAGATTGC  
CTGAGGTCAGGAGTTTGAGACCAGCCTGGCTAACATGGTGAAACCCTGTCTCTACTAAAA  
ATACAAAAATTAGCCGGGCATGGTGGCTCACGCCTGTAGTCCCACTGCTTGGGAGGTTG  
AGGCAAGAGAATCGCTTGAACCCAGGAGGTGGAGGTTGCAGTGAGCCGAGATCGCGCCAC  
TGCACTCCAGCATGGGCCGACAGAGCAAGGACTTCCATCTCAAAATAAAGAAAGAAAGGA  
AACAAAGGAAAAGAAAAGCCTTATATTTGGAACCTTTCTTCTAAAAAAGGAAAAAAGGA  
AGGAAAGCCTGGATGCACACCAAAATCTAAATTTTGGCCAAGTCCGATCAATTAAAAGG  
GATATTTTATTTTGGCATCAACAAAAATAATTTCTTTTACCTCCCCCCCCAAAAAAT  
TCAAATTAAGGTTTCAAAATTAGGCCAAACCTTTTTCCTTAAATGGNGGNTTT  
TAAAAAATGNTAAANTCCACCCCAAAATTANCAATTGTTGGTCCCCCAAAACNTTTTC  
TTTTCCCAGGTTNATTAATTTCTAATTTGGGGGGGAAAANGGGGGANGGGGTATTTNC  
CCTGGAAAGGTNGGNGGGGCAAATTAAGGAAGAAGGTTTGGGNGCTTTTAANAACCCCTT  
GCCTTNGGAAAAANGAAACCNGTGGGTTTNTTTTTTTTAAANANGGTCNTGNAGGAAAN  
ANGGGTTTNGGGGGGCCACCAAAAAANTTNTTNCNAAAAANTTTTTTTTTTTT

## Sequence 1354

TGGCGGCCGAGGTACGCGGGGGCACATAGCATAGACCCATATAAGAGGAAGGATCTGAGA  
AGGAGTNTGAAAAAGTGTGGAGAGGCTGCGAGAAAACAAGGCAGGTGTCTGGCTGAG  
GGCAGGAAGGAGACATTGCGATGGAAATTGTGCCCCATTTCTTGGAGGATTGGGAAGAG  
GACCTGTGGACTGGGCGGCCACACAAGTCTGTAACCTCAGGCAGTTTCAAGCAGATT  
GACCTTCTGCTGGAACACGGCCACATGAGGTGAAAGTTCTCCTCTACCCAGGGTTTTGC  
TTGGCCTTGCTCCACCATGCCCTTGACACTGGGCGGCTCTGCTTGGGGAGGGAAAAAAG  
CCTTGCTCTTGNTGCCTGGCTGGTGTGGAAACAGAAGAGGGGAAGTGGCAGNACAGGT  
CTGGGCCCANGCACNTTGGGGTATTCGNGGCTTCTAGCCCATTGCCGACTCATNTTTCC  
AGTTCAANACCCTGCCCCNTGGGAAAAAAGAAAGCCCCAAGAACCTTCATCAATGG  
AAATTGCCTTTTCCCTAAGGGAGNAAAAATTGGAACACAGCCTTGGGACCAAAATTGCC  
TNCCCTNGGGTCCAANGTTANGGCCCTGG

## Sequence 1355

TCCACCGCGGTGGCGGCCGAGGTACCTGTGGTGGGGAAGGCACTGAGCTGGATCCTGGGG  
CAATGAAGATGAACAGGACATTGTGTGCCACAGTCCAGGCAGGAACCAGGGTGGTGGAGG  
GCACACCCCGATTGGGTCTAGGAGAAGAGTTTAATAAAGGACATATTGATTCAGTGTGG  
GCAGAGTATAGGGAACCCTAAGGAGATAGTGCAGACTCCAGGGCCACGAACAACAGAACA  
AGGTGGGCAAGGCTGAGGGAAGGGAGCTGCTTCCAGAACCTGAAGCTATGTGGGGGACTT  
CCTGACAGAGAGGCTGTGCCTTTAGTCAGGAGGCCACCAGCTCACAGGAACCCTGTAGG  
GAAGCTGCCAGAGAGACCAAGAGCTCAGCTCTCATCTCCTGCTGATGGTGAGCCGCATTG  
GCCAAATGCCCCCAGAAGCCAGAGGGCACAGGACACCAGGGTGCCATCCACATGGGAGAG  
CAGTGGGGAAAGGGTGGANGGTGGATATGGAGGGCANGACAGACAAAACTACTGCCTGCT  
GGGGA

## Sequence 1356

ACTAATATGTGTTCTCTGAGGGCTGCTGAGTATAGAACTGAACTGGCAGAAGGGCTATT  
TTTTTTTTTCAGTCTGATATGCCGAAAGCAGGAATCCTCTAATCTGGTAACTTTTGTGG  
ATTGGAACACTANAATCTGAATTTATACAGTGGCCACATGAAGGGAAAAGGACATGAAAAT  
GTGAAAACTCTGGTAGAAGAAATGACTCATTTCTTCAATTGCTGATCCAGGCATTGAATT  
TGACTATCCACTGGAGGCCAAGTGCTGCCTGGGTTTGGTTTTAAAGATNCAGAGGGTTAG  
GATAGGTGCTTTTGGCAATGGTGATGGGAATCCAATATTGAAAAGAAAAGGAGGTCAGNN  
GAAACTGCGAATGGCTCATTAAATCAGTTATTGGTCCTTTGGG

## Sequence 1357

TCCACCGCGGTGGCGGCCGAGGTACTGGGATTGGTTGATACCATTACACAGGCTTCTTT  
TCTCAAAGCTGCAAACTTCCATAACACAGGATGCTTCATCTGATTTGTCAGGGCAGTCAT

Table 2

ATTTAAATCACATTTCTGCATTTTTTCAATGCAGTGACCATCAGACCTGCAGATAAATT  
CATTGTCTGTGCAGTTGTGTGGAGGTAATGTTACAGGAACTGACGTTTCTGGTGGAGTTG  
GGAGGTCTGCTGGCAAATTACCAGGGTAGAGGGTGCAGTCCATAAATGACAGATCATCAA  
TCGCAATATCTNCAGTGAAGCCATCTCCCACTGAAGCCTCCACCAATATCTGAAAGGGCT  
GCCTGCTTGAAATGTTGAGGTGTTTCTAATCCATCTGTTGCCTTGATTCCCANNTNTN  
TGCCAAAGCAGNTGTCCCTTTGNGTTCACCTCCCCCGGGTACCTGCCCG

Sequence 1358

TCCACCGCGGTGGCGGCCGAGGTACGGGTTTTATGCCGAATTAGCCATCAAGACATGGT  
TATCCTGGCTGTTTTATGGGAATGCCCTACCTCTCTCCTTGCCCTGCTTATCAAATTAGC  
TCAGGGTGGCTAGGTTTTACAACCATCTGCAGTAGGCATGGTTGGTAGCTACAGGTGGAC  
TTTGCTTAGAAATCGGAAGCTACGACGATTTACCCTCACAGTCTTTTTTGTGGTTTGC  
TTGATGATTAAGACATAGTTTGGAAATCCCTGTCTTCCCTTCTCTGCCTCCTAGATGA  
CTAATTTGAGCAGTGTTTATTGCAGCTGTATTGTGTTGGGTGGCTATGTTCTGCTATTGA  
AAAAAGTCCACCCAGCCTGAAATGCTGTCTCATGTAGTTGTGGGTACCTGCCCG

Sequence 1359

CCACCANCCTGGAGTGCAGTGGCCGGTCTTGGCTCACCATTTCAGTGATTTTTTTTAA  
AATAGCTTAATTTTTCTGGCAAATTAATTACTTTGGAAGTGAATCCTTTTCTAATCTC  
CCAGTTTTGTAAAGCAGCTACAGAGTACCT

Sequence 1360

CCGGGCAGGTACTGGATTTCTTCGATTGGCCCCCAGATCCATTCTTCCCTCCTCTGC  
TCAGCTCTGTGCTGACATGTGTGAATCACCAGTCTTTTTAAATAGAAGACTTTGAGTTT  
GTTTTGTCAATGGGAGAAATGGAATCCTTAGATCAGCACACAGAAGGCGAGAGAACTGG  
ATATTCCTCCTCTCCTCCTTTATGTTTCAGTGACACTTTTCTGGCAGTGTCTGTATCCC  
TTCCCACTGGGTGACCCCTCCTCTAGGACTCTGGCTATCACTGGCAACCCTAAAATAATA  
TTTCTCCCCATCTTCTTAAGCTCAAGGACTGGTAGCAAGTTCCTGTCTATTACTTGCCT  
ATCATCATTATCCCTTGTCTTTTACAAGTGCCTGCACCTTTGTAAGTGGTTACTTTTA  
TTAAAAGTCTCTTCACTTNAATCAAACCTNGGGAAGAATTCTGGTCTACTCANGACACT  
TAACCTCAAACCTGGTAGTATATACCATCACAGTNAGGNACCAGGTTCAAAAAANGGG

Sequence 1361

AGGTACTTTGAATGTGAGTTTTAAAGATATATATCCTGAAAATAAGGACAACAAGTGCCA  
GGGGAGTTAGGAATGCCCTGTCTTCCAGGCCTNAGCACCGCTCTAGAACTAGC

Sequence 1362

AGGTACATGCCTGTAATCCTCAGCCTCTCGTGTAGCTGGAATTACAGNCGGCCGCCACCA  
TGCTTAGCTTATTTTTATTTTTAATAGAGACGGGGTTTACCATGTGGGCCAGGCTGA  
TCTTGAACCTCTGACCTTAGATGATCTGTCTGCCTCGGCCCTCCCAAAGTGTGGATTAC  
AGGCTTGAACCACCAAAGCCCGGCCTGACATTTTCTTTAAATCTTTATCAACCAGCT  
TTCATTTCTGTGAGATGTCATTTTCAGCAACCTGTTGCTTATATTCCTCTGTTAGGGA  
AGAACCTTTTTTTTTTCTGGCCANGACTGGAGGAGAAAAGGGAAATGAAAAGGGATGG  
GAAGGAAATTACAAGAATCAGGCCACTGCTTGTCTGGTCTGTTCCACGGGATGTAACCCA  
CCAGCACACCGCCGTGGCTTCACGGGTACCTGCCCGGGGGCCGGCCGGAGGGTACCTTG  
GAGAGTGAAGGAGGCCACCTCCCTGGCATTGGGTCTGGTTCTGGGCTGGAGNTAATTC  
AGCCCAGAATCTTNGGTCCGTCCGGGGTTTTTTTAACTTTCCGGGTTTTTTGGGAGGCC  
AAACACTTCTTTTTTTTG

Sequence 1363

CATCACACAGTCAAGATTCTGTGCGCTTCAACAATCCTGTCTTTGAAGTCAGCCCACT  
GCTCACATCACTGAGCTCTTCCCCATTCCCGTAGTTCAGCCATTTCTATGGTGTCTTAG  
TGAATCATGCAGATTGTAGCCTTTGAGTCTGGTTTCTTTCACCTAATGCCGTGGAGAT  
CCATCCAGGACCTGTATGTGCAATAAGTTCCTTCCTTTTATTGCTGAGGTACCTNGG  
C

Table 2

## Sequence 1364

GGGGGACCTCCTCGTCCAAAGAAGGGAAGACCTTGTCGGCACCATTGAGAGGCGTGTCTCT  
CTTCTGGCTGCCGCTCGAGCACCGAGAGCTCCAGCTCGTCTACTGGCTGTGAGGGTTGGG  
CCAGGTCCATGTGCCGGCAGGGAAGTCTCCCCGCGT

## Sequence 1365

TCCACCGCGGTGGCGGCCGAGGTACCCCATGCCCAAATCTCTCTGCTTATTGACAATGCC  
AGAGTGTGCTCCTCGCCACACGCCAACTGTAAATCCTGACTGCTAACAAAGGGCTGGCC  
TCAGAAATCAGCAATGCTGACAGGATTTGGTTCCGGCACATACTGCTGGTTGGCTACTGCA  
CACTGGCCAGCAGAATTCTCTCCCCACATGTACCTGCCCCG

## Sequence 1366

ATTGGACTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACTTACAGATNTTTACCCATTCC  
TGTAATTTCTTGAGTCAGAGTTTCTACAGACCTGAATATTAGGAAAATGCAGGTTTAG  
TCCTAAAAAGGATACCGTGATGCAGCCATTGATGTAGCAGTGACTGGCTCCCCTAGGCTC  
AAACAATGCATTGACCTTTAGAGGGCAGCCAAGTGGAGCTCACGCAGGTTAATTCAGTG  
CATGGCCTTGTTAGATCACATCATATCCCCTGCCCTAGTGCCAGACACTTAATGCAGGAAT  
AGTATTGGTTTCAGGGAGCCCCCTTCTCTTGCCAAAATTTGGTACCTCGGCCCGCTCTAG  
AAACTAGTGGGATCCCCCGGGCCTGGCAAGGAATTCGATATCAAAGCCTTATCCGAATA  
CCCGTCCGACCTCGGAAGGGGGGGGGCCCCCGTTACCCAAGCTTTTTGGNTCCCTTTAA  
GTGGAGGGGTTTAAATTTGGCCGCCGCTTTGGGGCGGTAAATTCATTTGGTTCCATAAGC  
CTGGTTTCCCTTGTTGGTTGAAAATTTGGTTNATCCCCGCTTACCACAAATTTNCCACAA  
CCAAACAATTACCGAAGCCCCCGGGGAAGCCATTAAAAAGTNGTTTAAAGCCCTGGGG  
GGTGCCCCCTNAATGGAAGTGGAAGCCTTAACCTCACCATTTTAAATTTGGCCGTTGGCCG  
CCTTCAACTTGGGCCCGCCTTTTTCCCAAGTNCCGGGGAAACCCTTGTNCCGGGGCCCC  
AAGCTTGCCATTTTAAATGGAATCGGGGCCCAACCCCCCGGGGGGAANAAAGG

## Sequence 1367

GGNAGCTCCACCCGCGGTGGCNGGCTCGAGGTACGCGGGGCTCTTCAGTTGTCTGCTACT  
CAGAGGAAGGGGGCCGTTGGTGCCGGCCTCCATTGTTCTGTTTAAAGCCGCCATGAGG  
GGGTGGACAAGAGGCCCGTGGTCCGTGGTGGGGCCGCTTTTGGTTCCAAGAGGGAGGGC  
CCAAGGNAAGGGAAGGGGTTCAAGGCCCTTTGGGGACCACATNATCCCATTTTGGACTT  
TCTATTTTGGTGGTTGAAAAATGGGCCTTTTCCCGGGGTNCAAANGCCAAGCCACCTGG  
ATGGAAAACTTTCTTTCAAGTTGGAAGGGGCCCTTTGGCCTTGAAAAGNAAGGGAANT  
CAAGGGAACCCCTTGGGCTTCCCCAAATTTNCTNGCNTGGAAACCAGGGGCATTCTAATTC  
CCTTTTTCTCNTGGGGTNGGACCAAAAAAATTAACCAAAAATGGGTGGAATTTGGAA  
TAAATCTTGGAATTTGGTNGGGCTTCCCAAGGGGGACCATTTTGGGAAAAGTNGCCCAA  
AAAATTGGAAAGNAAAGNTTCCGGACCAGGGTGGGGGGAATCCCTTATTAAAAAAA  
GGGGGGGAACCAATTTGACCTTAACCAGGGGGACCACCAAAATGGTNGGGGCTTGGACC  
CCTTGGGTNGGGTGGGAATAACCTTCAAAGGAATTCNTGGCCCAACCCGTTTGGGA  
AAAAGCCTTGTGTTGGGCNTGGCCCCCTGGGGGG

## Sequence 1368

GAAGCTCCACCCGCGGTGGGCCGGGCCCGANGGTTACACCGAAANGGTGCTTGCTTCAA  
NGGAGGGACNGGCCAAGGGGCCGAAAGAATCCANGGAAGTCATTTCTTGGGTTTGGTCAC  
CCTTCTTCTTACATTCTTCCAAGACCCTTCGGGTGGTCCCAANCCAANAACTAAGGGA  
TTGTTGGGGCCTTGCTTTCTTTGGGGGGGTGGGGGGGCCACCAACAACCCACATTT  
CCAAGAATTTCCCTTTAAGTTGGTGAAGAATTGCCACCCCGGTGGGGAAGCCCCAAA  
AAAAANGAAAACCCCTTTTTT

## Sequence 1369

GGGCCGGGCCCGAAGGGTACCGCCGGGGTTGGGCCCGAAGGGAANAAATCNCCGAAGGGC  
CTTACCNAACCGTCTTCCCTTGAAAAGAATGCCAAAAACCAANCCGTTGGGCCGGGCC  
CCGCTTCTTAANAATAAGTGGGGATTCCCCCGGGGCTTGCAAANGGAAATTCGAAAT

Table 2

TATTCAAAGCTTTAATCGGAATTACCCCGGTTTCGGACCCCTCAAANGGGGGGGGGGCC

## Sequence 1370

NATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTGCCAGAAAGGATCAGGACC  
TGGAGTCTGGCAAGAGGAAGACAGAGGCCTGTGTGGGAAGCGAGTTGTTATCTTTGGTTA  
TCTAGCTGTATGAGTGTATTGGTCTTCATAAAGCTAGATAACCGAAAGTAAAACTCCTT  
CAAGATCGCCGGGGAGCGTGTGAGAATGAAAGACTACAGCCGAGAGACAGTAAAAACCAN  
AAAGGTGAGGAATACCTATTGAATCTAACTTTGTTTTGNTTTTGTTTTTTCCTTATGAT  
TAAAGGNGGGATGAGAGAAAATTAAATGACACACACATGCTAAAATATCAAGGGTCCACA  
TATGTCTTGACAGGGGTTTGTGCAACTGCCAANGANAATGNNTANTGATAATGAGTAA  
AGATGCATGNGCAATTTNGTCTATTTTAAGGCCAAAAGTTNTNTCAGGGATTTTTTTTA

## Sequence 1371

AGGTACGCGGGGGGGGGTGGTGGGGAAGAAAAAGAAAAAGAAAAATTAAGCATTAAACA  
CGTAAGATACCCAGAAAAGAGGGCTTACTCAATCAATCGANAAAACGCACGGAGTCTCTG  
CTGTGATAGGCAGCAAGCTGAGGGGGCTGTTAANANAACAGCAAGACAAACAGAGGACAC  
ATCTGGTGTATCAGGGAGCAGGACACACAGTCTGGGTCAATGGGTGCACANATGGGACAT  
ATGCAATGAGANACAGCATGGAAGACAGGCTGCCTGACGGGCCTGACAGGTTCTGAATG  
CTGGGCCTTAGGTGGTCGGCAGGANAAAGTCAGGGCTTCACAGCCAGGACACGACACAAA  
GAGACAAAACGTANAAAGAGGAGGGACCAAGCTGTACCTCCCCG

## Sequence 1372

CCGGGCAGGTACCAGGTTATAGATGGGTGCTGAGGATAGAGCAGTGAACAAAACCAACAA  
AAATTCCTGGCCTTTGTCTTTCATTCTAGCAAGTAGACACAGAAAAGGCAATAAATGCTA  
AACATAATAAACAAATTATATAGAATATTAAGATAGCCGGGCACAGCGGCTCGTGCCC  
GTAATCCCAGCGCTTTGGGAGACTGAGGCGGGCAGATCTCCTGAGGTCAGGAACTCGAGA  
CCAGCCTGGCTAACATAGTGAAACCTGTCTCTACTAAAATATAAATACAAAAATTAGCT  
GGGCATGATGGTGTGCGCCTGTAGTCCCAGCTACTCGAGAGGCTGGTGCAACAAANTTGC  
TTGAACCTGGGAAGTGGAAGGTTGCANTGAACCAAGATCACACCACTTGNACTTCAGCCT  
TGGGCNACAGAAATGAGAACTCTGTCTTCAAAAAATTAATTTAATTAATTAATAAATAA  
ATTNGAAGGCTTAAAAAGAATAAAAAAAGTGCCCCCGGGGGGAAAAACCAACCAAGTTT  
TGGNGGATTGGGAGTACCCTNNGGCCGCTNTAAACTANTGGGATNCCCCGGCTTGACAG  
AATTTNANATTAANNCTTATNNATACCGCGACCTTCAAGGGG

## Sequence 1373

CCGGGCAGGTACCTTTTCTCTTTGATTATAGTCAAAAGCCAAGGCTATGACATTCTTGA  
AATAACGTGGATTCTCATATGGCCTTATTGGGGAATTTAAATTGGTTTCATCAGAAAGAT  
GTATACTTTTTAATATTGTCTTCTCTGAATACAGTAAATAGCCTTCATGCCTCAGGCAAG  
TAACCTCATCTTCTGCCAAATATCCATGGGCACAAGCACAAGTTCTCCGGGAATTTCTC  
GATAAAGACAGAGTTGCTTACAGCCACCATTGTCCCTGGCACAAACATTGGTCCCTTTCT  
CTCTTACTCGGTTAAATACCCGCGTACCT

## Sequence 1374

CCGCGGGGTTGGGCCGGGCCCGGGGGGGGTTAAGGGAATGGGGGAAAGCCCGTTGGGNGG  
GCCAAAGGGGGAAGGTTTGCCAAGGGAAAGGCCAATCCCTTCCCTTCTTGCCGGGCAA  
GGGTTACCTTCGGCCCCGCTTCTTANAAAACTAAGTGGGGATCCCCCGGGGCTTGCAAG  
GGAAAATTTCCNAATANTTCAAAGCCTTTAATTGNAATTACCCGTCCGAACCTTCTAAA  
NGGGGGGGGGGGCCCCCGGTTACCCCAANCCTTTTTTTGTTTCCCT

## Sequence 1375

GGGANGCCTTCCCACCCCGCCGGGGTTGGGCCGGGGCCCCGGGGGGGGGTTAAGGGAAAT  
GGGGGGAAAGCCCCGTTGGGGGGGCCAAAAGGGGGGAANGGTTGCCAANGGGAAANGC  
CCCCAATCCCTTTTCCCCCTTCCCTTGCCGGGGGCCAAGGGTTACCTTCGGGGCCCCG  
CCTTCTTTAANAAAAACCTAAGTTGGGGAATCCCCCCCCGGGGGCCTTGGCAAGGGAAAA



Table 2

TTCCNNAATTATTCCTAAAGCCTTTAATCCGAAATAACCCCGGTCCGACCTTCGAAAGG  
GGGGGGGGGGCCCCNGGTACCCCAAACCTTTTTTTGTTTC

Sequence 1376

TGGGGAAGCTCCACCGCGGTTGGGCCGGGCCCGGCCGGGGGGANGGCTTGACCNAAGAG  
CCGGGGGGANGGCCGTTTAAGCCGAAAAGGGAAGAAAAAACCCTGAANGACNGAA  
AAGCCACCTTACAGGCCCGCCGTTACCTTCGGGCCCGCTCTANGAACTTAAGTGGGA  
ATCCCCCGGGGCCTTGCAAGGGGAATTCCGAATATCAAAGCTTTATTCCGAATTTACC  
CCGTCCGACCTTCNGAANGGGGGGGGGGCCCGCGGTACCCCAAACCTTTTTGTTTCCC  
CCTTTTAAATTGGAAGGGGGTTTA

Sequence 1377

CGCGGTGGCGGCCGAGTCTTCTCCTTCTAAGAGTGTTCNCCTTCAGCAGGAGGACTCCAG  
GCCTCTTCAATCAGTCGAAAGACAGAATCGAAATAAGTCAGATAGAACTGCCAGTCATCT  
GAGTTTTTTAGTAAGAGGCGCCGGGAAAGGGCATTGACTNTNGGCCACCTGCTCAGCTTC  
TTGT

Sequence 1378

GGACTCNCGCGGTGNGGCGCCGGCAGGTCCGGGTGNCTGACAGGNCTCTAGTNNCTNCTC  
AATGAGGCTCCTGTACTCTGGGNCTGTATNCTCTGGNCTCTGGGNCACTGGGGNATTGGA  
TACTAGCTCACTTTCCTGCCGCNCCCTGAGAGC

Sequence 1379

CGAATTGGAGCTCCACCCGCGGTGGCGGCCCGCCCGGGCAGGTACAGTGAGAAAGACATG  
ACATGGCTGAGATGGAGAGAATATGAGGTGGCCACAGCAGAAAAGTTGAGAACAATTTGA  
AAGAGGAAATCTGTGGCCAAATTCAAGGCACCCTAGGCTGTGATCCTGGAAGTGAACAT  
CTGATGAGTCAATACAGGGCACGGAGTAGGACTTTGAAGTCCTCCATTGGATCTTCTCGG  
AAGATGAGGGAATGAGAGAGTGTGGAGAGAGATTTTGAAGTCCGGTCTGGAAGTGGTC  
ATTGTTGAGAATCCANCCACGTGGGT

Sequence 1380

AATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACGCGGGGGGTGAAGATATGGC  
GGCGTCTGCGTCTGCAGCTGCAGGGGAGGAGGACTGGGTCTTCCCTCTGAAGTTGAAGT  
ATTGGAGTCCATCTATCTAGATGAACTACAGGTGATTAAGGAAATGGCAGAACTTCACC  
ATGGGAGATCTACATCACTTTGCATCCTGCCACTGCAGAGGACCAGGATTCACAGTATGT  
CTGCTTCACTCTGGTGCTTCAGGTCCCAGCAGAGTATCCCCATGAGGTGCCACAGATCTC  
TATCCGAAATCCCCGAGGACTTTCAGATGAACAGATCCACACNATCTTACAGGTGCTGGG  
CCACGTGGCCAAGGCTGGGCTGGGCACTGCCATGCTGTATGAACTCATTGAGAAAGGGAA  
G

Sequence 1381

ACATNAAATGGGGAGGTCACATCTATTAGTGATCAGCTGTCATAATCAGAAGAGGCCATA  
CAGCATTCAATTGAATATTGGAGGAACAGGACTCAGATACAGACNTACANNANCTCACTTT  
NCTGCAGAGAAAAAATGGGAACACATATGATGACCCTTCAACGTGATGAGTACCTGCCC  
G

Sequence 1382

GCCNATTGGAGCTCCCCGTTGTGGCGGCCGCNCGGGCAGGTTNCGGGGGGGTCTGAAGC  
TGAAAACCTGTAACCATGATGAAGGCAAAGGAAAGAGCAGAGAGCTCGGTAGACAGAGGAA  
GGAGCCTGTCTCAGACAGGCCCAAAACAGAGAACCCTTGTCTCATCAATGAACTAATGA  
CATAGACAGATCCAAATGACTGCCAGATCTGCCAGGAATCAGTATTTTTCAGGCTTCAGT  
GATCTCCTCTGTCTGGAGAACAATTCCTGTATATTATGAGGACTCTGACATCTTCTCTG  
ACCACCACTTTATTTCTTCTCTTAATACAGAATCAACTGCATTAAGGTCATGGTAGAAA  
CCAAAGCTAAACAGTTATTTTAAACATCATGATGTAAGTGCTGTAAACCTTCTTAGAA  
TTTAAACATGCTCAGGGCATGAAAGAGAAATGAT

Sequence 1383

Table 2

GTGGTAACTGATCAATCTTGGTGAGCTCTAAAATACTGCAATTGCCTCAACATTACCCTT  
TTATGGACAGTTCCAAATTAACCTATTTTTCTATGGGAATACCACTTTGCTTAGATATCA  
GAAAAAGCTTCTGATTCAACACTCTACCTTCTGCATCCTGTTGAACACCATATACATCAG  
TTTGAGTATTACCGACTGCTGTAACAAACAAGACCCTCAATTTGAGGGAGTTTACAAATT  
AGAAATTAATTTGCGAAAGTAAAATGTGGATGTTGCCGGACAGCTGGTAGATATGCTCC  
ACATAGTGATTCACTGGCAATATCACCTTCCCTTCTGTAGTTTTGACATTGCTTTGAGTC  
TCAGAACTTTCTGTGACAGCCATTATTCACCCGCGTACCTGCCCG

Sequence 1384

GCGGTGGCGGCCNNGGCACCTTGCCGCANGAGGGGAAGGATGGGCTTCCTGCAANGAANG  
GGTTGCCCCACGGCTTNCATNCTNNCCN

Sequence 1385

CCGGGCAGGTACCGCTAGCCAGTGCCGCATTTATCCATCTGTAAGAAGGCCCTGGTGGAG  
AGGATGGGATGAGAACAAGAGGCTACCTCCAGTTAACCAGGACATAAAGTCCCCAGCGGT  
TCCTGTACACCTGCTCCTCCCTCCCCAGGGTGCATCCATGATCGTGGATGTTTGCCAG  
GGGTGACCATGTTTGGCTGGCTTGAATGCTGTGCATTCTCAGAGCTCTGTTAAGTGTC  
CCTCTTGGGGGTCAAGAAGATGAAGGTGTGGCCAGGGGTCTTAGNAGGNAATGAGTGTCC  
AAGGCAAGNAGTTCAANAAGGTTAAGGNAATGTCCCTCTTGATAGNNGNCTGAAATTCA  
AAGGGGATTTCTGGGCTTAAANAAAAGGGGTCTTGCTTATTCTTTNCAAAAAAATGT  
TGCCAANGTATTCTGTAGCCCAGGTGTAATTTGAAAATTCACCTTTCCCAAAATCCAANC  
CCTGTTTACCCTGGACCTTTTGNCAATTGGTTTTTNNCCCCAAAAAATTTTGAAGG  
NTATTCAANTTNGAAACNAGGGTCAATTTTTAAACCAAAATCCTTATTTAACCGGGAAT  
TTCTNCAAGGGGNTNTGGGGAAAATTAATTTCAATTGAATTTGGCTTTTAAATCCCC  
TTTCCCCCCC

Sequence 1386

ACCGNGGTGGCGGNCGCCCGGGCAGGTACGCGGGTGAGTGTGTGTGGGAGTTTGTGCTAA  
TGTTCACTNNGGTGGAAGCTCAGGGATTTCCACTGTATTCTTAAGGTGAAGTCAGAGATTT  
GAGAGAGGATACCCACTTGAACCATACAGCTTGCCATTTTGGGCTGCAACAACNAGGCCA  
GTTGTATAAGGAGAATAAAGAACTGGTGCAATTTGGAGTCAGACAAAAAAGTTCATTCA  
TGGCTCTTTTCACTCTGGAAGATTCTGAAACCTTTGGTAACATATGTAATTCCTAAAATAA  
NGAATAAGNCCAAAGTGGATTTTTAAATAAAAGGGGCANATACCAGTTGATTTTCAAANG  
AAANGAGGAAAAAATTACTTNCANAGGGTGCCTGCCATTTTATTGAAAAAAGNCCAGTT  
NCCCCATTGTAAAGAAAAAANGAATTCNTGTTNCAAGGAAGCCAATTCCTTTNATT  
TCAAAAAACCCAGGNTCCGTAAATTTTGGCCCCATTTTTCNCCTTTGTTAAANAAANC  
AAAAAAGNGGCCCCCTGGACCTTAAAGGCCCCNCTTAAAAAACNAGGANTGNGNAT  
TTTTCNANCAANGAGGCCTCCNCTTAAACCTTCTTCTCCTNTTGGTCANTGAAATT  
NCATTGGGGGGGGGGGAAAANGGGANTNAATTNNTTTTTTTTTT

Sequence 1387

TCCGGGCAGGTACGCGGGGGAAGGGGCGGGATCCGAGGCAAGCGTTGGTTCTGTGCGCCT  
CAGAGTTGGAGCACACAGCTGTATTAAGGCAATCGAAGGCCGGGCGCGGTGACTCA  
CGCCTGTATCCTAGCACTTTGGGAGGCCGAGGCGGCTGAATCACTTGAGGTAGGAGTT  
TGAGATCAGCCCGGGCAACATGGTGAAACCCCGTCTCTACAAAAATAGAAAAATTAGCCC  
GAGCCGTGNATGGTTGGATGCCTGTAATCCTAGCTCCTCGGGGAGGCTAAGGAAGTATTA  
ATGNTCAAGGGAAGGGCGAATTATTGGGGAAGGTGGGGACCCATTATCTTAGTTAAGTG  
ATGAAAAGGTGAGGGAANTAAAAAGCCCAAAACCCAGNACAAGCCCATTTANCTCTT  
TCTCTTCTCTGGTGCCAGGCCAAGNGAGGCCATGCTAANTTGAGGCCCCAAGGGNTAN  
CCTTCGGGCCCCGGCTTCTTAAGGAAACCTAAGTGGGGATCCCCCCCCGGGGGCTGGCC  
AAGGGAAATTTCTNGAATTTTCAAAAGGCTTTTATTCCGATTACCCCGGTTCTNGAACCC  
TTNCAAGGGGGGGGGGGGGCCCCCGG

Sequence 1388

Table 2

AGTGGGTTCTGAAAGTCCATTCCGGCGTAGGGTGGAACCGGCGGGAGGCGTTGCTGATT  
CTCGATTAAACAATAGTGACGAGACGCGTGCGGGGCGCCTGCGAGTCCCTTCTCCCCGC  
GTACCTGCCCCG

Sequence 1389

ATACCTTTTTTGTCATTTTATGTGATTTGCTATAACTTCTTTTTACTTACCTCTGAAG  
TAGAATTTGATTGANAAGATAAATNTAGCTAAATTCCAAATACCATTCCCTCTTGTTTA  
CAACAATTAGAACACATTAAATGAANACTTGATTCATGACACAGCACCTAACAACTTN  
TTGGGCATTTCTGATGTCCTGTTGTCAGTGNATGCCTGCAGCACTGTTTCCCTGTTTCA  
TCATGTGGGGAGGTGGGAGTAGGTAATGGAGCTTCTGNTAAAAAATTAGAAAACTTTAA  
AAAATA

Sequence 1390

TATCTGTATTATCTCATTTAATCCTAAACCCTGTGCGTTAGGTTTTACCCTTATTCTTAT  
CCACGGCAGAGTTAGGGTCCAAGATCATGCTGTTGAACTGGCAAATNTGGGATTTAANCN  
CAGGTCACTGATTNCAGAGCACCTCCTCATTAAGTGTCTCTCAAAAATGATCAGGTCCA  
ACAGTTTTTCAAATTATATACCACTGTCAGCAAGATTTCTATATTGAATTTAGCATTAAA  
TATAAATACTAGAAAGGATCTAATAACAACATATATTTATAGGANCAAATCTAAATAA  
CACTGAAATGATTAAACAAGGGTNAAATTTAGGCTCATATGATCCTGATTTAATTCTCAT  
TTTGGTACCTCGGGCCCCGGCTCTAGAACTAGTGGGATCCCCCGGGGCGCTGGGAGGGAA  
ATTTGANTTTNCCANAGCNTTTATTCGAATTCCTGTTCCGACCCCTTCGAAGGGGGGG  
GGGGCCCCGGGTACCCCAAGCCTTTTTTNGNTTCCCCTTTTAGNTNGGAGGGGGGTT

Sequence 1391

ACGCCTATGCCAAGTGGAACCTCTGTTCTGCTTCAGCAATATGCTTCATTTTCATGATTG  
CAGAGGCCGTTGGGTGGGCACATTGCTGGGAGTCTTGCTGTTGTCACAGATGCTGCCACC  
TCTTAATTGACCTGACCAAGTTTCTGCTCAGTCTCTTCTCCCTGTGGTTGCATCGAAGCC  
TCCCTCTAAGCGGCTGACATTTGGATGGCACCGAGCAGAGATCCTTGGTGCCCTGCTCTC  
CATCCTGTGCATCTGGGTTGGTGACTGGCGTGCTANTGTACCTGCCCCG

Sequence 1392

TGGTNACTATCCAAATTCATGGTCGCCAAGGACATCGGTAAAGCCTGGAGTANCTTTCAG  
ATGTGAGGAGCTTCCCTAAAGCTCTGGAATAAGCAGGATTCAGGAATAGTANGGATAAAT  
GCANAGCGCTTAGAAGATGACCAATAAGAACAGATCTTAGTCCTGCCTGAACATGCTGTG  
AAAGCTTGAGGAACACACCAAGTGCCAGCCCTCAATCTCCTCAACTGACTTGGGGATTAGA  
CTACAGGCTATCGATAAAGTTTCCATCCATCCTTAAATCCTATGACTCCAAAATTTCTA  
TCACATGCAAAAGTATAAAGGCAGGAAGGAAGTACCTGCCCGGN

Sequence 1393

CCCTTAGCGTGGTCGCGGCCGAGGTACATGCAAGCTACTCTTGCTCTTTGGATCCATGGC  
TGAATCTGGACACCAGCAGTGACCAGCTCTAGAGTAAAAAATCAGGAAGGGGGCTGGCC  
ACACTGGGTTGGAGAATCAGACTTGGGGATACCATGCCATGAGGTGTGTGGCCTCTGGGC  
AACAAAACAACACCAGTTTAGACTCATCTCCTTGAAACAGAAGGAAAAGCCAGGCTTGAA  
AACATGGGTTAGAACAAGGAATCTTGGGCCAGGCGCAGTGGCTCAGGCCTGTAATCTC

Sequence 1394

CCCTTTGAGCGGCCCGCCCGGGCAGGTACTCTTGCTGTGGACTTTTATTATCCTTCCAA  
CTTCATTCTTGAGGGTCTCAAATCCTTTCTTGGCTTCCCTTCAGACTGCCTCTGTGCT  
GTCATGGTCTTTCTTGGGAAGACCTTCTTCTGCTTTCTCTCTAGGAACAACCTCGGCCAGG  
TATAGTTGCCTTTCCCAAGATTACAATTTAGCCCAGGATTCAGTCCCATGGTATCTCCGN  
CAGGATAGAGCCACGGGCAAGATTAAATTATCTCATTCTCACAGTTAGATCTTGCAGA  
AGCTTAGCAATGCCATCTGAGAAAGGAGGCATCTGAAGTTATCAAGCAGACAGGTAACCTC  
CGA

Sequence 1395

Table 2

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTCTGGCTTGTTGAGCGTGTNCTNACTGCTG  
GCCCTNTTGAGCCTGCTGAGTCGNGACTCAAAAGCCAAGGAAGGTGAAGACTTATAACTC  
TTCATGCCGGA

Sequence 1396

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTGTGGTTATGCCGGGAAAAAGACACAAGTCC  
TTTTCTTTGAAAGATAAACAATGAAATATTTATGGGTGAAATAGTGTCTGGGATTTGTTT  
TAAATATATTAACACAAAAAGTGTGAGGAATAAATAAATATGAAGCTGATGGTTTGCT  
GACAGATACATTGGGTTCCCGTACTATTCAATTCCTTTGCCTTAAAAATAAAACACTCA  
AACAAAATTAGAAAAAAAAAAAAAGAAAAAGAAAAAGTACCTCGGCCCGCGACACGCTA  
AGGG

Sequence 1397

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACCTCCATGCATGGCTAATTTTTGCTTTTCTGT  
TTTTGTAGAGACTGGGTTTCGTATGTTGCTCAGGCTGGTCTTGAACCCCCGAGCTCAAG  
CAATCCTCCCACCTCAGCCTCCCAAAGTGCTGGGACTACAGGCATGAGCCACCACGCCTG  
GCCTTTATATGTATATTTTGTATAGTAACATCAGTATGCAATTAAGAGTAATAATA  
TGTATGTAAATAAAGACACGAATATTTATTCAACTCTAGACAACGTTTGATGCCATAAT  
GGGTTTAAAAATACTCTGGGAGCCTGGGAATCTAGTCTCTAGATTGGAACCACTGAAC  
GGGTATTTTATTATTAACAAATAATCATTATTTTCCATTGTAATAACATGTAA  
AAAAACATATTTCCCATATGCTCAAGTGGAGAAAATTTGGAAATAAGGAAAGTAGCAAGA  
AGAAGTGGGGGGAAAGAAGCACCCATAATTCTATTACCCAGAGTCNAAAACATCTTTTAA  
CACTTTTTCTGTGCATTAAAAAAAAAAAAAAAA

Sequence 1398

CCCTTAGCGTGGTCGCGGCCCGAGGTACGGACAACAGTGATGTGCAACCATGCTCGCTCT  
GCCCTGGGAGGGGCGAGTGGAGGCAGAAATGGATGAGGAAATAGTGAAAGATATCAAAGAT  
ACCCCATACTCTCGGGGCATCAGCTACTGGCCTTATTTGGTTTTATAAACATAAACGTT  
CCTCCCAAACCTTCCAGTATTTTGAGGGGCTTTCACATTTCCAAATACAAAGTTTTACA  
AACAAAGCCTATTATAAAAAATTGCATTGTATGTGGCTAAATTACAAAAATGACTTCAGCT  
TTGTATAAGTCATTTAAACAGTGTATACACTAAGGCTATTTTAATCTTCCAAAGAACTA  
TTGTGGATAGCACAGTTTTCTCACAGCTAATGCTTTATCAATCATNTATCTCAAATTCC  
TGTTTTAACCATTTTGGATCAAAAGCCTTTA

Sequence 1399

CCCTTCGAGCGGCCCGCCCGGGCAGGTACTTTCCTGTGGACTTTTATTATCCTTCCAAC  
TTCATTCTTGAGGGTCTCAAATCCTTTCTTGGCTTCCCTTCAGACTGCCTCTGTGCTG  
TCATGGTCTTTCTTGGGAAGACCTTCTTCTGCTTCTCTCTAGGAACAACCGGCCAGGT  
ATAGTTGCCTTTCCCAAGATTGCAATTTAGCCCAGGATTCAGTCCCATGGTATCTCCGCC  
AGGATAGAGCCACGGGCAAGATTAAATTATCTCATCCTCACAGTTAGATCTTTCAGAG  
CTTAGCAATGCCATCTGAGAAAGGAGGCATCTGAAGTTATCAAGCAGACAGGTAACCTCCG  
ACCAATTACAGCACTCTGCCCCAACTCCAGATTCTGTGGTAGGCATCTGATATGGGGCTTC  
CAGCTTCAAACAGCAAGCTACATGTTCAAGCATCACTGGAGGTCTTTG

Sequence 1400

GATATCTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACTTTTTTTTTTTTTT  
TTTTTAGACAGAGTCTCACTCTGTTGCCCAGGCTGCGTGATCTCAGCTCACTGCAACCTC  
CACTTCCCGCTTCAAGCGATTCTCCTGCCTTAGCCTCCTGAGTAGCTGGGATTACAGGTG  
CGCACCACCACGCCCGGCTAATTTTTGTATTTTAGTAAAGACGGGGTTTACCATGTTG  
GTGAGGCTGGTCTCGAACTCCTGACCTCATGATCCACCCACGTTGGCCTCCCAATGCAG  
TAGCGTCTTAAAGACCATCTTAAAGGCTGGTAAGAGTCTGGACTTTATTCTAAGGACTAG  
AAGAGAAGCCATTTGGTTTTATGCAGGGGGATGACAGGATGTGATTTTCACTTTAAGAAG  
ACAAGTAGTGCTACAGTATGGAGACTAGATTGTAGAGGATGAGAGTGGTGATTGGGAAGG  
CCGTTCAAAGGCTGTCACAGGGAGCCAAGGG

Table 2

## Sequence 1401

CCCTTANCNGNGGCCGNNCCGACGGGCCCTTTGCCCTTTGAATTCTTGATTGTTTCATT  
GAAGAAATGTGGAAATCTGAAACAACTATATTCTCAATCATGTTAGAAAAAGTATATGT  
AATATGTATTTTTTAAAGTCCAGTGGCTAAGAACTTAGACTGGGTTTTGAAATAATAAT  
TTCTTAACACAGTTTCTCAGTATGTTTCCTCTAGACAAGAGAAAACCTCTGTAATTATGAT  
TCTTAATTTACCCTGGTAATTTCAATAAGAAAAATGATTAATTACTTTGAGCAATCAGTTA  
TACAGATAATCATGGTCTTTATTTAAACCACAAAAATAGAAAGAAAGCAGAGAAGCTT  
AAGCATAAAATATAAGACAAATTCAGTCATTTAGTAAAAATGAAATCAGTGTTAAAAATA  
TTTCTTTTGACACAGTCAGCTAACATCTTTCTATTTTGTCTGAGTAACTATTAATTATAT  
TTTAAGTTCAACTAACTCTTGACACAGCAATGGGAATTTGAAGTGAATATACTACTTTGA  
AAAATAAATGGTGTATTTAGAGTGGTGACATTTAGAAAATGGTAGNTTTGTGAAATTTGC  
AATGTGTTTTAAATTTATAAATGCTAAAGTNAGGTGAATGCATTGATTATNTTTAATTNG  
AATAAAAACCGAAG

## Sequence 1402

CCCTTAGCGTGGTCGCGGCCGAGGTACATGTCATTCTCTCTGACAGCAACTTTAAAGCCC  
CAGGATCAGCTTTCTGCCCTGCAGTTGCTGGTCTACCTGATGCCACCCTGCCACAGTGAT  
ACCTGGAGCGTCTGCTGAAGGCCCTGCATAAAATCACTGAGAACTGCGAGGACTCAATT  
GGCATTGATGGACAGTTGGTCCCAGGCAACCGTATGGCTTCCACTAACTTGGCCTTGGTG  
TTTGGATCTGCTCTCTGAAAAAGGAAAGTTTGGCAAGAGAGAGTCCAGGAAAACAAAG  
CTGGGGATTGATCACTATGTTGCTTCTGCAATGTGGTCCGTGCCATGATTGATAACTGG  
GATGTCCTCTTCCAGGTGCCTCCCCATATTCAGAGGCAGGTTGCTAAGCGCGGGTGGAAG  
TCCAGCCCCGAAGCACTTGATTTTATCAGACGCAGGAACTTGAGGAAGATCCAGAGTGCA  
CGCATAAAGATGGAAGAAGATGCACTACTTTCTGATCCAGTGGAACCTCTGCTGAACCC  
GGGCTGCTGTCTTGTCAAAGCAAGCCTTCTGATGAAAGGTNCTNTGANGAGCCAGCTG  
TACCTTTCCGGACTTGCCGTTCCCTTGACNATGAGGAAGGAGCGGGTAACCTTCCATTTT  
CGGACAAGAACC GCCCATTTGCTTCGTGTGCCCCGGGAGAAGGANGGCCAAAACTGGGGNN  
ANNTCCTTNTTTCCTTAA

## Sequence 1403

CCCTTAGCGTGGTCGCGGCCGAGGTACCTATGACCATCTTACATTATTTTTATGGGTGGG  
GGGCATTGACTGTGGAATGTGGGCAGTAACCTGCACAGTCAGTAACCGTTTGAGTAACCT  
CTTGTTGGCATCCCCATTCTGGCACTCCTCCTAGGTCTCCACCTCACACGCTGGTTTG  
TGGGCGGAGGGGCAGGTTGGTGCGTGGGGTGTCCGGGCACTGGCTGTGCATGCCCTCTTC  
CTCTTCTGTCTCTTGGCCACCTTTTCCAAAAGTCACCAGTGACCAATTCTCCAGTGTT  
TCTTTGGGACTCAATGCCTTGGGCTTGGCATTGGGTAAAGCCAACCTGGCCAGT

## Sequence 1404

CCCTTAGCGTGGTCGCGGCCGAGGTACTTCTGGCTTGTTGAGCGTGTCTCACTGCTGG  
CCCTCTTGAGCCTGCTGAGTCGGGACTCAAAAGCCAAGGAAGTTGAAGACTTAGAACTCT  
TCATGCCGGAAGAGGCTGCAGGCATAGGCCCGACCCNGTCTGGGCCGNGG

## Sequence 1405

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTGTTTTTGTTTTTGTTTTT  
CCTTAACCTACGCGTGCTTTAAATCTCAGTTAAATCTTCTTGAGCATTACTTTCTTAG  
AGTGGCCTTTCCCACTGTGTTTCATCAGAACATTAGTTTTGTTGGCTAAATGGCACTATGT  
GACATAAAGCCAAATGAGATTGGGAAATTCAGTCTAGATTGGACACACGTCACCCCTCTN  
CAATCCNTAGGACTTCTTAGAGCTGTNAACGCTAATGGACATTGTGGATCTCTGGGAGGG  
GATATGGATTATACAGTTTTATTAAACCTTAATCCTGGACCAAAGGAANTNTCCTTTCA  
TTTTCTTT

## Sequence 1406

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGGAGGATCAGCTCACCTGCTTNGCTCTC  
GATGTAGCCTAACTGGGTTTAGAGCCTTCCCTTGAATGAAGAACCCTCCCCAGCTGGAAA

Table 2

GGGGATGCTCTTGAAAAGCTCAGCTGACAACACACATGGGCATCAAAGTCATTGGCCACA  
TACATGCCTCAAGTGTNCTAAAACCCNAATATGATCAAAAANAAAAGTCTGTTTCAACAG  
TGGAGACTGGCATGCAANATTCCCCTGGGCCTGCAAGCCTAGTTGNAAAAAGATACCCA  
AAATACTGNTNGGAANAATGAAAAGGGATTGAAAAGGATGGTCATCCAAAGTTNGTNTT  
TTNCACCTGGATGGGAAAAGGACTTAAAACCGCAAANGCATGTTTCANNGATCCAAACCA  
CAANCACCCACCAGGGGATTCC

Sequence 1407

CCCTTTTCGAGCGGCCGCCCGGGCAGGTAAGTCTGGGGCCAGAGCAAGACCCATATCT  
CAGTCAATCAATCAAGATTTTGTGTAATATAATCATTATTCACAATTTAAAAATCA  
GCTTCAAAACACAGAAATATGAAAATCAGAATTAGGAAGGCTGGTGGTCAGTCTTCACTTA  
AAAATAAGTTTATAAAGAGTCCATTATCTGTTAGAGATATGATTGAAGCATTTCCTAAT  
AAAGTGAATACTGGGATTTGCTTTAAAATCATCTGAGGTAGGGGGAGCCTAGAATTAAT  
GTTAAAGCTAAGTGATGGGAGTTCACTAAATTATTCTATTTTTCTGTTTGAATCCTCCA  
TCATGAAATGTTTCATTTTGTGTTTAAAGTAAGTTTCCAAAGATCTTATCATTAAATATAC  
TCTGTAGATAAAATGACAGGCTGCCCTTAAGCTGTCAAAGTCTGGTGGCTCAACCAGGTA  
TGCTCCACACTGAGCCCAACAGTGTAGACTCACTCAATGCAGGCCCCCTTACAGAAAGGCC  
ACAAAANGCCCCCTCAGAAAACAATCAGAGCCCCAGTCAGACCACCAGCCACANTGCAGGG  
AGCTGGTGCGGNCTAATCTCTCTCACATTAGGTATCCCGAATGTGAAAATCCAAATCCA  
A

Sequence 1408

CCCTTTTCGAGCGGCCGCCCGGGCAGGTAAGTCTGGACCAACAGCTAGTCTTGCTT  
TCAACAGCTAGTCTTGCTTTCCCTGATCGTAGATCCCTACTAAAAGCTCTTGAAAGTGTG  
CATATGCAGGCTACCTAATGATTAAACGGAGGATCAAGATGGTTACACTGCAGAGAAACA  
GGAGGGATAGGGCATATGCCCTTTGTCCAGCAAGGCAGACAAAACTAGGAAGTTGAATT  
CTCTTCTCTGGATTCTGTATCTGGAGCCAAGGCCAAGGATCAGTTCTTCTAGAAAGTTC  
CCTCCTGTGTGTGTGTGTGTAATGTGTGTGAATGCAGCCATAACTCCCTGCCAAAT  
CATTGCCAAAAATTTTGTGATTTGAAGCAGGCCTTACCTGTTAATGCAAATTTGATTCTC  
AAATCCTAAGAGTTTCCAAAGGTTGAGTGAAGTGAGATGAGACTCTTAATTGAAGATCCA  
GATGCTTNCCTGGTGCTATCTAAATGCTACCAAACTTCCAGCACAAACAAAGTNTATGAA  
AGAGANGCTCTAGGGTCATGAAATGGTAAAAGTTGAAAAATGGGCCC

Sequence 1409

CCCTTAGCGTGGTCGCGGCCCGAGGTAAGACCTCCAGGTGGTAGATGTAGATGGATA  
CCGGCTATAATGGTAGCAGTAGCCTAAGTGAGCCATCCTCAAGCTCCCAGGAGAAGTGC  
ACAGATGCCAACAAATGGTGGATGGCGGGAGCAATATCCAGATTCCTGGAAATTGTGTTTA  
GTCAGTGAAGAACAGGGGGAGTGCCAGACCAGATAGACCCATCCTTGGGTCCCCTAGTGG  
TGCACACATGCACAGGCTGTGGTAGGCAAGATGGTCTTATTTGAGGTTCCCAATGGAA  
TGCTTGGGTGGCAAGTAGCAACAGCTGCAGTGAACAAGGAGACCCACCTCAGGGCACAG  
GCAAGTGCATATGGCCTTGCTGCTGGGGAACAGGGTTGCTACCAAGTGGCAGCAGCCAC  
AGGCAAGCANCANTCANGCTCTGGGGAGGGCATGCTTACCCCCAATAATGGTAGCCTTT  
GATNGTGGCAATGGTAGCTTCAAGGAAAACCGGCCTTAATGTGCCTTNCAGTGTGGCACA  
TTCCTTCTGTTGGGGT

Sequence 1410

CCCTTTTCGAGCGGCCGCCCGGGCAGGTAAGTCTTTTTTTTTTTTTTTTTTTTAAAGAAACAC  
GGTCTCACTCTTTCACCCGGGTAGAGTGCAGTAGTGTGATTGAGCTCACTGCAGCCTCG  
AACTCCTGGGCTCAGGTGATCCTCCCATATCAGCCTCCTGAGTAGTTGGGACTACAGGCA  
TGTGCCACCATGCTCAGCTAATTTAAAAAAAATTGTAGACATGCAGTCTCGCTATAT  
TGCCCAGGCTGATACTATACTCCTGGCTTCAACAATCTTCTATCGCAGCCTCACAAAG  
TGTTGGCATTACAGGTGTGAGCCACTGCACCTGGCCAGTTTTTTTACAATTATAAAAAATA  
ATCTATGTTCAATTTCTACAATAAACATTGTAGAAAATGAAAAATAGAGAAAAAGCTGT

Table 2

CCCATAAAGCTTTTTTAAAATCACTGATTGAGTTTAATTTTTATTACTGCATATATTGC  
TTCATTTCTCA

Sequence 1411

CCCTTAGCGTGGTCGCGGCCGAGGTAAGTGGGTGTTATTTGTTGAATGAATGTTTTA  
CCCAAACCTTATATGCATATTAGATTGTTTAAAAGCTCAATTAAGGAGTAAAAATAGACA  
CTGAAAATTTTTGAGTGATTTACATGTGTTTCATGAAACAATATATCTATTACAAATCA  
TTGAATATTTTAAAAGTAATGTCATGTATTCAATTTCTATTTTATCTCCTCAGTAGACT  
GAGATCAGTGTGTAGGGGTGAAGCAAGGAGTCCACCCTGTTGACTAAGGTAAAAATTA  
AGAATCAGTGAGAAATGGAATTTGCAAAAGTGCCTGCCAGATAATGTTAGAACTGGACCA  
GAAAATAGGAGTTGGTATAAACTAGACCAGCGAGCTTTTTTTTCTTCAAGATGCAGTT  
CAGTTTATTGCTTTTGTAATTAGAGATTGTGTTCTTGATCTTTATTAAAGTAGAATAC  
AATGTTAACCTACTTCAAATTTTAAAAAATATCACACATGTATATGTATGTGTGTGGT  
ATATACACACAGGATTTAAGGACAGNTTTTGTGTGTGTGCATGCGCACCCTATGCCA  
AAGGAAATT

Sequence 1412

CCCTTCGAGCGGCCGCGCCGGGCAGGTACCACAATCACAAATGCAGCACTGTTTACTGAC  
AGGACCATTACTCTGTCAAAATCAGCACATCAAAAATATTATCCTGGAATCTAAAATAGT  
AGTCAACTGGGTTGTTAAAGCAAGGGATTGCTATAGATCTACAGGACAAAGTTCCATAGT  
GAAACACAAACTCCTGGGTTAGTCTAGGCCAGGCAGGTGACCATAAATGTTACATTCT  
GGTAGAATCCCATTTTCTAAAAATTATACAAACATCGAAATCACTAGATTTTATATAT  
ATATATACNCACACACACA

Sequence 1413

CCCTTAGCGTGGTCGCGGCCGAGGTACATAACTTATAAATCTCAACTAAATACATAGCTT  
ACTGTAGGAATATGTTGCCAATTGACAAGAAAAATAGTAAATATGAATAAGCTAAGAATT  
AGAAAAGAAAAAATTTAATTATCAAACAATTACCTTACCAAATGGCTCAGATGAGTCCA  
AACAGTGAGCTCTTCCAACTTTTCCATTATTCCTAAGCCATATCAATTCAGAATATTAA  
AAATGATGAAATGCTATCCAGTTAACCTTATAAAGAAGAGCTCTGATAGCAAAGTCCAAC  
AAAGGGAAAAAATACTACACAGATATTTACCCCATGAGTATATATTTAAATTTAA  
AAATAAAATATGGCCTAACAGAATTCACATAATATTTAACAATAATACACTATGAACAA  
GTAATCCAAGAAATGCAAAGATATTTCAATATTA

Sequence 1414

CCCTTCGAGCGGCCGCGCCGGGCAGGTACCTGAGGGTCACCAGATGCAGCAGCTCACGGC  
TGATGAAGATCCCTCTGAGGAAGTCTGTATTCTCTATGGCCTTCCACAAGTCCGAGCTCA  
GGAGGACTCCAGGGCTTGTCTGAACCTTCTGGAAAACATGCTGGTAGTGAACAAGGCGCT  
TCCACAGTCGCGCAAACTCCTCTTGGTCTAGCCGCCATCCACTTTCAGTTCCATCAGAG  
CCACCAAGCTGCGGCACTCATCTAAGGAGAACATGTCCCTGGAGGTCTGTAGAAAGCT  
CCTGGTTGAGAAGGCCCTGAAGCTGGGTGGCATCAATGTCCAGCCTCTGCTGAGCATATC  
TGTTGAAAATGCTTTGTTGGGAGCCATGTTCTGAAGGGCTTCCT

Sequence 1415

CCCTTCGAGCGGCCGCGCCGGGCAGGTACGCGGGATGAGGAAAGGGATGCCTGGGAGACTG  
GAAGAACCACCTTTACTGTGGCTATGAATGAGAATTTGATAAGCATTATGAAAAGAAGAT  
GGCAGGGTCCCACTGAACCTTCTGCCTGGAGATCTGAGAGGAACAACAACAACTAGGTG  
ACAGAGACTATGCCAACTATTTGCCTTTTATTCTGTTGAGCAAGGAAGTGTGACTGAAT  
GTGGAGCTTATGAGCTTCAGTCCATCTCCTATAGTGTGGCTAGTTTGCTATAATATTAAA  
ACATGATTTAAATATCAACAAACCAGTTACTCCAGCAAATAAAATAAGAGAATTAGAGA  
GGAAAAAANAAAAAAG

Sequence 1416

CCCTTCGAGCGGCCGCGCCGGGCAGGTACAAAAATTAGCTGGGCATAGTGGCACATGCCT  
GTAGTCCCAGCTACTCGGGAGGCTGATGAACAAGAATCACTTGAACCTGGGAGGAGGAGG

Table 2

TTGCAGTGAGCTGAGATCGTGCCACTGCACTCCAGCCTGAGCCGACAGAGCAAGACTGTC  
TCAAAAAAATAAAAAAGAAAAAATAATAAAAGGAAAAACAAAGCCTTTAGAAAAACAAA  
GCCTTTGAAAAAGGATGTAAATTGAATATATAGATACAATTATTTTAAAAAGTTTTAT  
AGAAAAATATCCTGGATTGTTGATGTTGNTTTAATATATTTTAAATCATTTTTGTATAATG  
NCCGTGTATAATTATGTTATAATGAAAGTAAAAAAGGTCTTAGCANAAGCAGGCA  
GA

Sequence 1417

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTATTANA  
NATGGGGTTTCACCATATTGGCCAGGCTGGTCTCAAACCTCTGACCTCAAGTGATCCACT  
CGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGACTCACTGTGCCCGGCCAGCAAA  
CAAGTTTTANATTTAACTTTATTTGAATGCAATANAAAAAAATTAGGCATTAAATTGAA  
GGGGCTGCTGAACCTCAAATAAATGTTCTTCATTGGTTCCTAAAAGGGATAAAATAAGCC  
AGTTATTCTCAAACCTCAAGTATGTGCCAAATCCCTGGAGGACTTGTTAAATCACAGAT  
TGCTTNGGCCCCACCCCCAGGGTTNTGATTCAAGGAGGTCTTGGGGTGGGGCCAANAATN  
TGNATTTTCAACAAGTTCTCAAGNGATGCTTGATGTTGCTNGTCTGGGGACCACTTTG  
AGAACCACCTTGATTAAGGGCAAGGAAAAAAGAATTGNGGGAAAA

Sequence 1418

CCCTTTGAGCGCGGCCGCCCGGGCCTCCCAAGTAGCTGGGACCACAGGCACATGCCAGGAT  
GCCTGGCTAATTTTTGTTATTTTTGTGGAGACAGAGTCTTACTATGTTGCCACGCTGG  
TCTCGAACTCCTGAGCTCAAGCGATCTACTACCTTGGCCTCCCAAAGTGCTGGGATTAC  
AGGCATGTGCCACCATGCCCCGCCACTTTTTTTGTTAATGTTTAGACATATCCCATGTA  
TATATAAATATAGATCATTGTCATTAATAATAATGACGGTTAATACTATGTGATGTGTT  
GCAATTTATTAATTTCCCTATTTTTTGAAATTTAAGTTGTATATCTGGTTAACTCTTGCC  
ATAATATTGCTTGCGTAACAACCTACAAAAATAAGGNAAGATAGAAATAAGCACTTCCTTC  
TTGCTCGTGAGTTTTTCAACCGTGGCTGANGGGGGATTGGGTACCTCGGCCCCGCGACCAC  
CGCTAAGGGG

Sequence 1419

CCCTTTGAGCGGTGCGCGGCCCGGGCAGGTAACACTTTCCACACTCTGTCTCACTGCCCCC  
CTCCCAGGAAGTAAGACCTGTATCATCTTATTTGTTGGCGGGGAAATTGAGGCTCAGA  
GGTTGAGTGACTTTTTTGGGGTCTCAGCTGGTCACTCGGGAGCTGGGTTGGAGCCCAGT  
TGTGCCTGAGTCCACTGAATAAAAGCATTATTGGGAAGTGGCTTCATTAACAATGAGCCC  
CAGTGGAACGTAGTATGGAATGGAAATGGAAATGGAAATGCAGTGGAATGTAGAGTGG  
ATATGGTGTAAGACACCTGGAAAGCTTAAGGAGTGGGAGCTAGAGAGACAGAGAGAGAG  
ACCGGGAGACAGAGAGAGAGAGAGAGAGAAATCCCCAATTTCTGGGTAAACAGACACACA  
CCCTTCTNTACCCTGGCTCANGGCTGGCCATGGCTGTCCGTGGCTTGCTTTCTGGCCAGC  
AGAAAGGAATAACCTTG

Sequence 1420

CCCTTTGAGCGGCCCGGCCGAGGTAACATAATTTATTCAACCATTCTCCTATGATA  
AACAAGCACTTTTTTCCACTCTATTGCCACATAGACTATGCTGCAATAGACATCTTGC  
ACACATATCCTTATATGCTGATGCTTTTATTTGTATGGAAAGATTCCAGAAATGTGAGTT  
CTGCTTTCAGCAGTATGTGTTTTAATAGATGTTGCCAAATTGCTTTCCCAATAGGCTAT  
AGCAATTCATATTTCTATCAGCAACTGTTATTTTGTCTTTCTGATTTTGACAGTTCA  
ATGGGATGTAAAGCAATCTCTCATTATTACTTTTAAAAAGTCATCAAGTGTTATTATCCC  
AATTTTGCAGATAACTGAGGCTCAGAAAGTTTGAATAGCTGGATCAGTTTCCCAAAAGCT  
AGAACCAGAAATTTGGAAGCCAAATCTGTCTGAACCCAAAGCCCATGCATTTTCTATCCAC  
CATGCTGCCTCCCGTATCATGAATTTGGAGCAGAGGACTTTNTTTGCCTGAGTGGGTAGG  
ATGCAGGTGTGTCTAGAGAANGCANAGGGTGTCATGGGAA

Sequence 1421

CCCTTTGAGCGGCCCGGCCGAGGTAACATAATTTATTCAACCATTCTCCTATGATAA



Table 2

ACAAGCACTTTTTTCCACTCTATTGCCACATAGACTATGCTGCAATAGACATCTTTGCA  
CACATATCCTTATATGCTGATGCTTTTATTTGTATGGAAAGATTCCAGAAATGTGAGTTC  
TGCTTTCAGCAGTATGTGTTTTAATAGATGTTGCCAAATTGCTTCCCAATAGGCTATA  
GCAATTCATATTTCTATCAGCAACTGGTATTTTGTCTTTCTGATTTTGTACAGTTCAA  
TGGATGTAAAAGCAATCTNTCATTATTACTTTTTAAAAAGTCATCAGTGTTATTTATCCC  
AATTTTTCCAGATAACTGAGGCTCAANAAAGTTTGAATAGCTGGATCAGTTTTCC

Sequence 1422

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATGAATGGTCAAACACCAGTCTAGAGCATCT  
TATTGTCAACAGCAAAATAATATTTGCCACCCTGTTTGTGACATTGAGTTGTGACTTC  
TATATTCAATAGATTTTGTAAATGTTAAACATCTATATTTAAATGTTAAACACTAAA  
TATAGAGAGGGGCTTTATTTCAATCATAGAGCAACAACAAAAATAATGCTTATAGCTAAA  
CTGCCTGTTCTAGAAAAGCATCTGCTTTTTCATGTTATTCCTAAATCCTCTTGTCATACTT  
TTGTCAATTGAACAATGCTCTCCCTCTCGTCTCCATCCTCATTGAGAATTTTGAAGAC  
CACAATCGTGGAGATACACTACCCAGTATTGTTTGATACATTTTATTTGATAAACATTC  
AGTGCAGGAACTGTGATTTGCTATATGTTTATGTATATAATCTTA

Sequence 1423

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTA  
CACATACGCATTTCTTCCCTCCCTCATGTAAGTCTCCCATATGAAGTTTGCCATAAAGTC  
CTGTAAGTTCACCCCAAAGCTTCATTCAATTGTTTTAATCCATTATCAAGGGATGAAAA  
TGTCACCACTCTAATTCAGGCCCTTGTAACTCTGTGATATACCATAGAAGATTCTTTCT  
ATTTTTCAGGGTTTTAATCTTCAAGTTAACTTCCATAGTGTACCCGATGTATCTTAGCA  
ATCAGAAGCGTCTCATAAACGGGAGATGAAACGTCAGAGTCACATTAGGAATCCTGAGG  
CTGGAAACAGAGGTTTCGAGTGATGGGAGGAAGCCACTAGGAGGCAGGGAATGCAGGCTCC  
CTAGAAGGAGAAAAGGCAAGGAAGCAATTTTACCATCAAGAGCCCCAGAAGAAACCAGC  
CCTGTCCACCCCATATCCCCAAGATTTAACTTTATTTATAAGATCAGTTTTAGGTTAC  
TGACCCTCANAACATAAAAAATTAATT

Sequence 1424

CCCTTAGCGGCCGCCCGGGCAGGTACAAAAGTTTGTGTTTTGGGCAAAATGGTGAAAGTA  
AGTCTAATACTTTATATACAAAAGTATTAACTGAATCTTAAAGGTTCCCTGATTTAAGT  
GATTTGACTAAGATCAACTCTATTTTTTAGGCAGTATAGTCTATTAGAAGTTAAATAAA  
TGGATATAATAGTATATTTCAAAGAAATATTTTTACTATGCTACATATACTAACTCTT  
TTTTAAAAAGTGAAATGGTTTATTTACATTTTGAAGAAATATAGTCTAAGAGATTTTAC  
ATATTGGTTGACAGCACAACTTTGGAGTGAGATAGTCGTAGGTTCAAATTGNGGCTCTA  
CTGCAAGCTGCTACGTGACCCTAGGCAAAATCATTTAACTCTCTAGTTTTCAANTTCTGNA  
TGGTGTGAAACAGTGGGTTCACTGTTGGAAGGNGAACTGGTGTANGGTGGTAGGCAAAA  
ACAAAACTTNATANCCACTGGTTTATTANNANNAATTATGGGGAATTACCT

Sequence 1425

GGAGTCGCCCCGCGTCCGCCCATCCAGAAGCTGCTTCCCTTCAGACCTACCTACGGCAT  
GACCCCTCAAAGTCAGATATGGGACAAGAGCCTCCTTGAACAACTCTGGTATCCCTGCA  
GCAAGCAAGGATACATTGCAGAGGTGCCCGGAGTGGAGTCAGATGGGCTAGCTCAGCCAC  
CCCTGCATCTCCCAAACCTGGGAGACATGTGCCCCATGGGAGTAAATCCAGGACATTGA  
CTCAACTCTCAGAAGTGTTATTAGTCAAGGAGGCTCTCCCTTCACTGAAGGAAGGAAAG  
TCAGCTCTCTCCTGAAAGGCCAGATCACTGGCTGAGTAGATGAGACAAGGGTATGAAAGG  
CCTTTGCCATCTTCTTTGCCAGTCTGAAAGCACTGACGTAAGAGACCAGTCAAGTTCT  
AATGTAAGGTGTATATTTAAGTGTGAGGGTATTGCAATTGTCACCCCTGTGGTCAATAT  
CATTAACAGGTATGAGAAATTCGCTTGGCATAGACTTCTGGTCTGCTTAATAAGAATN  
CAACTAAGGATGTCACATGACAAGTTTCCAGAAAATGTGAACAAGTGTCCATCTTGACA  
CACCGCACCAATGACAAACCAAGAAAGTTATTCTGGCTGAGTCTTAAGTTGCTGAACTA  
ATAAATTANCTGCGGTTCTTTGCAAAAAAAAAAAAAAAAAAAAAA

Table 2

## Sequence 1426

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTAATCAAAATATAAAGGCTGGAGAGAAA  
CATGAAAAAGAAAATGAAGAATTCACAGGGCAACTAAAAGTGGCTAAAGATGTTGAAAA  
CTCATCGGACAAGTGGAATCTGGGAGGCAGAAGCCAAATCTGTTTTGGATCAAGATGAT  
GTGGACACCTCAATGGAAGAATCTTTGAAGCATCTTATTGCCAAAGGCTCTATGTTTGAT  
GAGCTTATGGCAAGAAGTGAAGATATGTTACAAATGGATATACAAAATATTTCAAGCCAG  
GAGTCCTTTCAACATGTTCTCACAACCTGGGCTTCAGGCAAGATTCAAGAAGCTAAAGAG  
AAAGTCCAGGTCAATGTGGTAAACTCATTGCAGCGTTGAAGAAGCTTAACTGACCGTTTC  
ACCAGATTTGGACATCAGGCTGAAGATGGAAGAATCCCCAAAGGGACCTTGAATCATATA  
TGATGAGGGCTCAGCAGTTACTGGGGGCAAGAGAGAGCCCCGGTGGACTCANTTTCAAA  
CACCAGGGAAGCCCCAATAATTTCTAATACAAAAGGCTGGCCNAGTATTTNAAAAGCTG  
TTGAAGAAGCTTAAAAATAATGGTACNTGAGGACATAAAAAATNTCTTTAGAANAAAAGANG  
TTGAGATNTCTGTNCCAAATNNGGAGTNTTTTCATTATNGAACTGGCTTTATNTTCCAN  
CACCTTAAAAATNGNTTTGAAAAAGGAAACCTTAGTGCCANATTTTAAAANTTGAAAGG  
CNAAAAAAAAAA

## Sequence 1427

CCCTTAGCGTGGTCGCGGCCGAGGTACCTAGCTTTTATTCATTTTATTATTCATCTTTAT  
TGCTTTTCATTGCACATGCTGTTAACTTCTTATGAACTCTTTGTTCTAATAAATAAGCATA  
TCAGGTTTTTTCATAAATAAATGAGGAGTCTATAAATCTTACTAGTTTTAATAGAAACA  
TTGCCACTAAATGGTGTATTCTAGCTGTGTGAGCTTTTGGAAAATGTTTTCATTTTCCTT  
TATGTTTGAATGTTCTTCCAGGTCTTTGAAAATATACATTCTGAGTTGAAAAGCTTTAT  
AATAGGTAAGAACTCATTAAACCATATACTTTCCATGCTGGGCACAAGCANGTGTGGTAGG  
TAGAAAATATAAAGATGACTCCCCAAGATTTTTGCACCCTGGCATAACCATATGCTTTT  
CCAGTTTGTTGAAACACTAATTTTAANGGTGCTGCTTGTGAANGGGAATTTNTGTAGATG  
TGAATAAATNGTANNAANATCAGTTTGGGCCCTTAAGA

## Sequence 1428

CCCTTAGCGTGGTCGCGGCCGAGGACAGTATATTATTTACACTGAAGGGGCTTGTGTGTG  
GACAAGAAAGCGCTGACAGCTCAAATGGATCCCATGGAAGTGAAGAAATGTCAACATCGAA  
CCAGATGATGAGAGCAGCAGTGGAGAAAGTGCTCCAGATAGCTACATCGGGATAGGAAAT  
TCAGAAAAGGCAGCAATGAGCAGTCAATTTGCTAATGAAGACACTGAAAGTCAGAAATTC  
CTGACAAATGGATTTTTGGGGAAAAAGAGCTGGCAGATTATGCTGATGAACACCATCCC  
GGAACCACTTCTTTGGAATGTCTTCAATTAACCTGAGTAATGCCATCATGGGCAGTGGG  
ATCCTGGGCTTGTCTATGCCATGGCCAACACAGGGATCATACTTTTTGTAATCATGCTG  
CTTGCTGTGGCAATATTATCACTGTATTCAAGTTCACCTTTTATTAAAAACAGCCAAGGA  
AGGAGGGGCTTTTGATTTAATGAAAAATTAGGAAAAAAGGGCATTTTGGATGGGCCGGGA  
AAAAATTG

## Sequence 1429

CCCTTAGCGTGGTCGCGGCCGAGGTACATATACTTAATATAAGTGGTGTATGCTCAAAAA  
ATTTTCACTGTTAGAGCACAGGATCATTACAGTTTAGTCAGCACTGTCTAACGTAAACC  
TAAATAATACCATGCTCTGATGAGTGGTATTGTGGCAGGTCATGAGGTGTTGTGGGAACA  
CAAATCTGGCCAAGTTTGCCAGAAAATGAGAGGCATTTTCATGAAAAGCAGATGATATAGT  
CAAGGTGATCTTTTTATCATTGAACATTTGTCAGCTAATCATAAACTTTTATTTATTGT  
GATTATTAATAAGTTTGGTAATGATTATTGAGAGTAAAGTTCAATTTCTGGTGTGCANG  
ATTGCTTTCCCTGACATGAATACATTGTATCATTTGTTATGAATGTANCCATCCCCTTAG  
GGGGAGGATTTTATNACAGACTTTGACATAGACTTCCACTTAACATGATTACTCAGTAGC  
CTCCTTAAACATCANGACTAAAAGGAATAACCTTACAATCTTAGANTACCTTTTTGAAAT  
CCAATAACCCATTTGGTTGGTTNAANAACCAACCTTTAA

## Sequence 1430

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTGTTACTCTTACAGATGTCTCAATTAATTTT

Table 2

AACCTCTATCCCTAATGGTGTAAATTTGGTAAAGAAAAATTCATTTTTCTTTATTT  
TCCAAGAAATGGTAAGCTATCTTTGTCCCTATGGGAGATGTGGACAGAGAAAACCTTCTG  
TCTCTGATGTCTTTTGTGTGAGACAAGATTTTAGGAAATAAATAAGTGGTGCAGGGAATT  
GTGAGATTACATTTACCTCCTTTTCTGTCTCCTCTCTCTTTTATATAATCTTTATCTCT  
GCTTCTAACAATCTCCTTATCAGAANTTTCTAACATATGTAATGGATGAGAGAGAGAAAA  
ACTGCCACCACAGGATCAAATTTCAATTTCTAATCTGGAGAAACAGGAGTCTAGTTTTCAA  
ACATTTTATTCTAAAAAAGAAAAGGTTAAGCTA

Sequence 1431

GATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCGGGCAGGTACGCATAGCTATGCT  
ATGTGACCTAAATGCCAAGTTTTCAATTTGTTTTATTTAATATTAGGGCTTCTCATATT  
TCATCTCTGTTTATGTTTACATAAATTACATTATATCAAATCCAGATTTGAAGCATCTCG  
GAATACTTGAGTAGTTCTTGCTAATATTTTCATAGTTCAACTTTTATTTTAAATGTTAGT  
CTGGGAAATAATGTTTGTGTGTATAAATTTAATCAATCACATTACTATGCTCCTACATT  
ATGTTTTCATCATTTGCACAACAAAGTTTGCTGTTTATCTAATATATATACATATGTTTT  
ATGTCCATCTAGAAATATGATTTTCTGTTTTATAACAGCCAAATAATGCTAGGTATAT  
ATATTAACACAAAAGCCTGCAAGAAAACCTTTTCTTTTATAATATTCATATTTACGTGT  
TAAGGGGGCATAAATTATTTTAACTTATATGGTTAAATGAT

Sequence 1432

CCCTTAGCGTGGTTCGCGGCCGAGGTACCGATACTCAAGACACCTTTTTTAGTTTTGATT  
AGAAGGACTTTAGGAATTAGTTTCATTCCCTTCATTCACCTAAGCATGAATACCTACCATT  
TCAGCCCTGTATGCATGAGCAGTGCAAAATAAATATATTTCTGCTTCAAATCACTCAC  
TGTTTGGAGATATTAGAATCTCCTAGCTTAATCTGTTGGATTTTTCATAGTTTTATGATT  
TTTAGATTATTTTCTGCTTGTCTTCTGATCTGATTGACCCCTTAAAGATCACCATAC  
TGTTGTTTTTTGAGTTTTAAGTAGAACATTTCTTTCATAGTGGGAAAAATGGTTGGTTT  
CAAATATAAATCTTTTGTGGGTAAATATTACTTAGTGGGAACCCCTTAAGCAAAGGGTCA  
AAAAGTCACTATATTGGTTGCCTGAGGGGGCCTGTTCCCAAGAGACAGGAATACCCATAT  
TGAGGGCCCTACCGTGTCAAAGTTACAGCTCTTGATTCAATCCTTCTTACAAGCATGGAA  
ATAAATGGCTAAGAAGGTGAATATGCCCTAAAAAATTGGGATTTTAGAGGTNNGGAATG  
GCCAATNGAAGGTGGCTAAAAAACCCTTTTCAAAGGAATGGNCCTCAATANTTAAG  
AAATTTTTTCANTTTTTGACCNCAGAGNTTNNNTTTAATCCTTTTTT

Sequence 1433

CCCTTAGCGTGGTTCGCGGCCGAGGTACACAATATTTCCAACACCATTGTCAATACTTAGCG  
TTATAAAAAGGTTTCAGTTACTAACATGAAGTGAAGATCAGCAAATATTAAAGATGATT  
GAACATATGAACTGAAAACTATAAAAAGGTAGAAGCTATTGTAATAATGAAGAACT  
GAAAACTGAAAAGATAAGAAGTTACTGTAAAAAGAAAACGGTTATACCATTGGAAGCAG  
AACAAAATGTTCCAATAAATCTTTTTTACTTAATAATAGAAATATTGAAAATGCAAACT  
CTGAAGGGTATTACAAGGGGCTAGACAAATTTTGAATTGTTTTGGCATAAGCAGGGAGAG  
GATTTATTTGAATATTATTAATGAAGACAAAATCTGCTTATTGAGATATCTCACCTA  
TTATCATTTTAAATAGAAGAAGTCTTGAAAAGTTTGGTTGGTAATTCTCTTTTGGTTAGT  
ATTGGCTCAAAC

Sequence 1434

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGTATCTTAAACAAATTGATTGATAAA  
GATAGTTGTTTCATCTTATTATCATAATAGATAAAATATTTCTATTGATATGTATATAAT  
GTATGCATGACAATTAAATAGATAATAGGGCAGCTTGTTTCATTATAAAGGTAAAGACAT  
TTTGGGAAGGAAAGCCTTTGTTATTCAATTTTTTTGTGAAAAGAAATATTATTAATTT  
TAAAACTACATTGTGATAATTTTAAACATAGAAAGCATAGTTATAGTTGACTTAAACCCG  
ATTTTCCATGGCTCCCTCTTTCTTTTCAGTAGTAGCAGAAAGATCTGAATGGCAAGGGAT  
GGAATGACTCCTTGAAGTAGTAGCCAGCTGGGGGGCTGTGTTTGAGTGCCATANGGCTGNC  
TTGTTGGGTAGGTTCCAAATTAATTTCTAGGTCTGGCTCTTGCTGGTAGAATACCTGAAG

Table 2

CATTGCTCTTCTTTAGAAAAACCTCTGCTCAANAATGTCTNCTTGGGATTTTIN

Sequence 1435

GTCGCCCCGCGTCCGCGGACGCGTGGAAGCAATGCTTGAACCTGTAAACACACAGCAGA  
ACTTGATTGGAGCCATGCTCATTCTTGAATCAGAAATGTGTGAGAACTCTTCTGACCAC  
CTTAATTGGCCATGTCAGGTGCTTTGGGGATGAGGTGTGAAATCAGAAGGAACAGCCAAA  
GTAGGAGAGTGAGGGCAGGGATACGTGGGAGAGGAGCTGAGTGAGAAGAAGCCAGAATGC  
CATTTGCACATGAAGATGGACAGTCCAAGACAATGAGCCTAAGAAGAAAACAACTACCAA  
TAAAAGAAATATTCTCAAAGTGTCATTAAGAGGAGAAATAAGTTTAATTATTAATTTAT  
TTGCATCTTAAAAATCAAAACAGTCTCTTTGGTTATTGNAGTATGTATAAGATGGATCGT  
TCTCCCTTTACCTGTTGTGCGCTCTGTTAACCATTTAGCACCTCTCCAGGAGTTTGGACA  
GAGGAAAAATGCATAACATTAACAAATTTGCTGCCATTCAATATTAGATCATATATGTTA  
GCATACATCTACCATAGCCCCTGACCACCTTCATCCCAAGGAAAATGAAGATCAAGTCTC  
AATTATAAATTCTGTGGAATTTCAACCCAAAATGACTGGAGAAGTCATAGCCTGTGGNC  
ATAATGCTTTCCCTTGGGGAA

Sequence 1436

CCGCGTCCGGGTGAAGAACACCTGTGTCTTGTAGAGGCCCCAGTGCTCAGAACCGGGAG  
TGACAACTGTGCTGTTTAAAAAGAGAGCAACTGCTTGCCTGTGAGATCATTAGGGGTTT  
GGTCTTTGTTTCCCAGTGCTGTTGGGCTGCTTAGGGCCCTCCTTGTACCCTGTCTCCCA  
CAGTCCCTGCCCCTCCCCATCGCCTGTCTCCTCTAACATCACTAGGAAGGAGCCCCAT  
TCTGTAGCGGCACTGTTTGTGTTGATTTATGTGGGTTTTTTTTTTTTTAAGTANAATA  
AGGTTTTTAAAAATCANGATTCTGAAAGAATGTGTTAATAAAGTGGCCTTTTAAAC  
TNCCNGANTNNAACANTNNNNTGNANCGGGCGGCCCGNTA

Sequence 1437

ACGCGTCCGGTAAGTGGGGCAGGCCCTTTATTGGGCCCATCATTAGTAAGAGGACACAGCC  
TTCCAAGAGGAGGTTCTTGTGAGCCGGGCAGGACAAGGCGGGAGGGCAGGGGGAGCGGGG  
GTTGTGGGGAACGGGTCCCAGATCCCTTTGGGAGAAAGTTGACCCGAGGTTTTCTCTGCT  
CCAGCCCTCCCCCTCCTGCACAGAGCCCTGCCTGCCCGGCCTGTGGGTAAACCCAGGG  
CTAATCCAACAGAGGTGGGTCTCAAATCACTTGTGAGACTGGGCACCTGGGTGGGGGTGG  
GGGAAAGGTGGGCAAAAGAAGGAGTGAGTGTTGGAGGG

Sequence 1438

TGCCCCACTTAAATAAGCTCTGTATGACATGAAATTCTGTTNAAACATTGTAATTCATGGN  
GACTTNTAACTNATAAAAAATACTACTTGCATGGGTACTTGATTTATGGATATATGAAA  
CTTNCANGACGANTGATCTTCTTTCTCTAGAACTATTCTTCTGTGCGTCATGCAGATGC  
TGTTATTCTGAAAAGTGTCCTGTTGCATATGATGGTCACTTTATTTGGGGGATTCTTC  
ATAAGATGTGAGATGTTGATGCCAGTCTTTCCCAAGTAAGTGCTCGTAAAAAAGGACTAC  
TAAGTAGCCTGCATCTGTCTCTAACTGGGACCAANGGGTCTGCTGAANGAACTGAAGAG  
CTCTAACATTTTACAGCTTGGAGAAGATAGAATCTTAAAAGTNCACCTGAAGCTTGAT  
CTATTTTACA

Sequence 1439

GCAAAGTGGAAGGAAGAAGCCCCATTTAATGTTGGGTGGGAAAAATAGGACTTAATAGAA  
ATGTTTAAACAGGTTGTATGGATAGATCTGGAACAGCCCTAATCTTAATTTGGGCAAA  
GCATGAACCAAGGGTCTGCAAGGGCTGGAGGTTGGTTCAAGTCTCATCGTGGGGCTGAAT  
GTTTTGGAGAATTTTTAGCTAAGATTTGCANGGGAACAGAAGCAGTGTTGCCATAATTAG  
ACAAATAGAAAGGTCTATGAGTAGACTCTGATTACAGAGACCAAGCNTTCTCACCATT  
GCCTTTGGCACACTGGAAACCAANAAAGCCTGTGGTATANTACATACCCCGAGAACTGG  
AGAATATTGACATTTCCACCTTGCCCTCTGTCTTANATTTCTATTTCTGTGATGAAACACC  
ATGACCCAAAAGCAAGTTTGGGAAAGGAATGATTTTATTTGCTTGTAGAACTCAAAC  
TGAACAGGAATCTAGAGTCAGGAGCTGATGAAGANGCCATGGAGGGGGTGTGGTTGCTG  
GCTTGCTCTNCATGGCGTATTTAATCTGCTTTCTTATAGAATNCAGGATCCCCACCCAGT

Table 2

GGTGGCCCATCACAATGGACTGGCCCCCATCAATCAGTAAGACAATCTGCTGGAGTGA  
TGATGGGTGCTCANGCTCACANGGNCATTGNGGCATCTATTACTGNCCATTGGGGTGCTGT  
GTGGAAGGGA

Sequence 1440

CGCCCACGCGTCCGATCCCAACAGTTCCCTCGCCTCTGTTACCCACAAATCACCAACT  
TCCCTCACCTCTGTTACCCGACCAGGCATCAAACTTCCCCCGCCTCTGTTACCCACAG  
GCTAGCATGGGCACCAAGCTTCCTTCACCTCCTCTATCTTCGGCAGCCTTCTTTTCTGA  
AGCTGCTGTTCTGAGGTTCTGGGCTCTGCTCCATCCAGTATCCCATGGGTGTCAACACC  
TTTCTCTTCATATACCTTCCAGTTAGACTGTCCAGTGGGTTGGAAGTCACAGGACTCCAG  
GCAATGCTAGCAGCCACAGTATCTCCTTTATTAAAGTGT

Sequence 1441

TTAGGGAGTCGCCCACGCGTCCGGTTGCAGGAGCCCCGTGGTATGTGTACCCAGTGTGAG  
GATAAGCCGAGGTTAACACAAGCAGTGGGAATTCCCCAGGCCAGTGAAGCTGCTTATGC  
TGTTATCCTGGGCAGCCTTGAGGCAGGAGAGTAACGTACAAAGGATTATTTATGAATTTG  
CCAGTTATTTTGAAGAATTAGCATCACAGTGAAAGTGACATAAAATAATTTTAGTAGAA  
ACAGTTTGGTGAAATAAAGGCCATTTGGGAGTATTTGAACAGCACCATAGTGCATTCTGG  
GTTCTGGCATGTTACAGCAGGAGGAAAGGCATTTTATGATCTGGTTTTTGTGTTTTGA  
GACTGGGGCTCATATATCCAGACCAGCTTCAAACATGTAAGTGGGGACCTTGATCAGAT  
CTTGATCCTCCTGTCTCTACCTCCTAACTA

Sequence 1442

TCGACCACGCGTCCGTCCAGGTCTGCGCTGTGCAGCCTGGTGGGAGCTGGCCACGTGTG  
GATGGGTCCATGTCCCCAGCAAGTCCATCAGCTCAGACATGCAAGTCTTCCAGGACACTG  
CCCTCTGCCCCAGCAGTGGCTTCTGGACTGGCATCTGTCCTCTACCTACCAACCAGGCT  
CTGGACTCCATGACAGATCTGCCTGCAGGGAGCCCAGCACACATGCTGCATGTCACCGAG  
GCAGAGGCCACAGTCCCCACACTCTGGGATAGAACTCGGGAGCCACGGCCACCCACACTT  
GCATGGGAAAGGGTGTCTGCTGCAGGATGACAAGCAGGGACAGCTGGGTGGTCTCCTAG  
AGCTCTGGGGATGGGGGCAGGGGACATCCCTAGGCACCCTGTCTAACCAGAAATGGATAG  
TTAGAGGAGCGCTGGGGCCTANCCACCTGCTTCTGCCATTGGATTTGACAAGCCATTTTA  
TATTGGGTGTCCAAGCAGTCCTTTCACCTCTTGGGTAGTCGGAGGTGCTCCGCGAGGTCC  
CGCTCGAGGGCCCTGGCTTTANGTTGTCAGGGGATTAAA

Sequence 1443

TTGGCGGAACGCTGGGAAGCACACATCTATGCCAGCGAGGATGAAAAGTGAAGTGAAG  
CAGGGGGCCATTCTCCTGCCTCACTGCAGTCTGTGGAGGCGCTAGACCTGCCCCCAGT  
CTCTGCTGTCCCTATTTAAACATACAGCCCAGGCTGATGTTTGTGGCCTGCAAGTTGATT  
TGGTTTTCCCTGGGGTGGGCGAGTGATTCTGCTTAGGGGTGTTCTCAGCTAAGGCTGAA  
ATGATAATCCACCGATCCCCCTCACATCCCTCAGCCCTCCGCACAGCCCAGAGCTTGGAT  
CTGTCACTGCAGAAAGAAGGCTCTGTTTGGGGACCTGCATTCCACTCTTGCCAAACCCCAA  
ACGTATGCCTGTTGCTATGAAATAAACCTGTCTGAACTGCCAAAAAAAAAAAAAAAAAAGG

Sequence 1444

CCCTTTCGAGCGGCCGCCCCGGGCAGGTACTTTTTCTTTTTTTTTTTTTTTTGAATGCAG  
TCCAGCCTGGGCGACAGAGTGAGACTCTGTCTCAAAATTTAAAAAAAAAAAAAAAAAAAAA  
AATTTNTATGGGACTGGAAGAGGAGGTCCAGTCCATTGTAACCTGTGGATAATACCAGCT  
CCATGTCAGGGTGGTTCTTTCAATTCATTACCAAGCAAGCATGCTTTTGAGGCACGCTC  
TGCTCTACACATAAGGAAATCAGACATAGGGGGTCCCACTCCCCTGAACTCATAATCCAA  
GAGGTGGGGAGACAGACAGAAAATGAGTAGGTGATAAGGATGGGAGGGAAATGAAGGGAG  
GATGATGGGAT

Sequence 1445

CCCTTAGCGTGGTCGCGGCCGAGGTACCCAAGCATCATGTGAACACTGTGCAAATGCTAT  
ACAGAGAGTACAGGCAGCTTAACCAGATGGAGAACAAAACACAGCAGCGCACAAACGAAT

Table 2

GAGTAAGTAAAAATCCCTATGAATCAATTCAGTCAGGCATAATACTCTAAATCCTTAAAAA  
GGGGGGAAAAAAGAATGTAAACAGAAATCTATTTCCACAATACACCCAAGGGTAACTAAT  
GTAACCTAACTGACTAATGACAATACAAGATTAATAAATAAACACCAAAACCCACTATACCTG  
GATTTCATATTACTTAGATGAGAAGCTAAGTTAAGATATTGTAGGGAAGCTCACTTAATTA  
CACTGGTGATGAAATTGNCTTTTCTCTTTCTTGAGTTAAGCAGTTATGCCTTGGGCCC  
AACTTTCTGACCTTGTGAGTAAAGTTGAGCCACATGTTGAGCAGAAGATATCACAGTAG  
CTGTATTTTTATAAGAAAAATTCCTTTTAAATTATAAACTAAAGCCCCGAGGAAAACNA  
NNAAAAAANNAAAAANGGAAGAAA

Sequence 1446

CCCTTAGCGTGGTCGCGGCCGAGGTACCGAGGCTATGTGCTAAGTATGTTATTCCACTTAA  
CCAGCCCTCAGTCTAACAGAGCAGATGCTATTATTATCCCCTTTAAACAGTGAAGAAGCG  
AGGCTTAGGGGGAAGTGTGTCATGCCCCAGGGCCACATGGCCGGGTAAGGGGTCCAGCAG  
CTTTAAGCCAGGGAGGTGGGCCCAACGTCCATACCCTCAGCCATCTTCATCCTACTTCAT  
CACAGGGTCGGGGAAGATACCAAGTGATGAAGGCATTGTGGTACCAGACTNNTGTGATTG  
GCCGAGGGATGAGTGAGGCCTTG

Sequence 1447

CCCTTAGCGTGGTCGCGGCCGAGGTACCGGGTCTTCTCTCCTCCTTATGCCTTTTCTTC  
TTCCTCCTCACCCTCATGGCTCCAGGTCCATGCCCAGGGAGCATGTTAGCATGTTGTGAG  
GTCTCAAAGTATCTGAAAAGATTGTCTTCTCTGTGCCCAGGCTGCTTAGAGGCAGCCTGA  
TATAAACTGTAAAAAGGGGGAGAGTGTCTCTGTGTCCTCTGCATCCACTCTTCATGCA  
TTTGCTCCAAACCAATCTGCTCTTAGGAAGGGATCAGACGAACCTGTTTAGAGTGAGGT  
AGCAATGATAGGTTAGCAGTGGGGTAAACCACATAAATGAACTTTAAATGAGGAATTC  
CACCTTGTTAAAGAAGTAAGGTGGGCCAAGGCACAGTGGCTCACGCCTGTAATTCCAGCA  
CTTTGGGGGGCCA

Sequence 1448

CCCTTAGCGTGGTCGCGGCCGAGGTACTAGATCCAGGATCCAGGGAATCCCTGTCTTTTA  
AAAAGCCAAAAGAGGATGGGGAAGACAATGGGAACCATGGGTGAAATTGCATTTAAGGAA  
AGAGCAAAGTAAATTATGGGACTTAGATATTCACAAGTAAGTCTGTTGAACATTCTGTCT  
TATGTAAGGTATAGCCTTAGCAATTAGAGTTTTTGTAAAGTGTGTTACTACTATTAATAA  
AAATTGCATGGAGATGGGAAACTATTTTTACTTGTATGAAATTCAGTTATTGTTTTG  
TCTAATTATCAACATTTCTTCTGCCCTTAAGACAAAGTAAATATAGTAATTGGTAGAG  
TAAGGGGCTTAATTCAATTTAGTTTTATGTTAATGGCCAGAACTAGGTGCTTGCTTC  
CAGTCAGCTTTATTTTCGTTCTTCTACTATCTCTCTAAATAATTTAGGATATAAAATTGACTG  
AATAAAAACAGTAAGCCAAGGTTTTACCCCTTCGATTTTTATACCANGGCAAGATGGGA  
GAAATATCTGGAAAGGGACT

Sequence 1449

CCCTTAGCGTGGTCGCGGCCGAGGTACCGGCGCGGCCACCACACTCGGCTAATTTTTGT  
ATTTGTAGTAAAGACGGGGTTTCATCATGTTGGCCAGGCTGGTCTTGAACCTCGGCCCTC  
AAGTGATTCGTCCACGTCGGCCTCTCAAAGTGCTGGAATTACAGGCATCCACCGCGCCCG  
CCCAGTTTTGTTGATTTGATTAGTAGTTTGGTCACTGCACATACAAAAGCTAAAAAAGG  
CTGTGTGTAGAAATCATTCAAATATTGAGATATTTAAATGAAAGGTTAACGCTTTGGGAA  
CTCCTTTGTGGTTCCTTTTCTTCCCAGCTTTGAAAGTCTGGGGACTAAGTCTGTTAT  
TTTCATCGGATTCAGTACCATGATCCTAATTTGTGCCACTTCATT

Sequence 1450

CCCTTTGAGCGGCCGCCCGGGCAGGTAAGTAAATAAAAACATAAAGAACAAGAAAAA  
CAGAAAGTGAATATCAAATCTTCATACATTTAGTATTATGACTGAAACTCAAATGATGGG  
GAAATTTAAATCTCTGGCAAAAAATATGGGTTTCTTCTGCAAATTTTCATGCTGTCATG  
AGGAACCGATGGACTTGAAAGATCAGGGTGCAGACAAGAGAGTAAGGAGAAGTCATGTCG  
CCAGCCAAGAAAATCATGCTTCTTTGTTCTCTGATCTGGCAACAAAGAAATTGAAGGTCT

Table 2

CATGTTGCCCTGGTAACACCCGGGAGGACACTCCCAGACTGCTGAAAGGGCTCTACCCAG  
CCCCACACAAAGTGTCACAGGTCCAAACTCTGGCCAAGGACTCTTCTGGAGCCAGAAACA  
TAACTGGGTTTGGACACTCCTTTAGCTTNTTTAGGGCG

Sequence 1451

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACAGACAATGTGAAGTTAGGACTTAAGTAAAG  
GTAGTATTTATTTACTAAGAATAAACTTTCTTTAAGAAGTATATAGAAAGTAAATAAA  
TATTTGTTGCTTTATATTCAGCCATACTTTTCTACTCACCCTGGGCTGCAAGGCACAA  
CTATTTTATTATTATTATTACTTTATAGAGACGGGGTCTCCTTATGTTGTCCAGGCT  
GTTCTCGAACTCCTGGGCTCAG

Sequence 1452

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACATTACGGTGTTGTGCAGCTATCACTGCTAA  
CTAGTTCGAAGATATTCATCACCCCGGAAGGAAACCCTGTACCCAGATAAGTAGTTATT  
TTGATCCTTATTTACATTTACTCTCTAATTTCTCTTTGAAAAAGATAAAAGAACCTAAG  
TTTAAATTACAGCATAAGAACTTGATGTGTTTTCTTTCTTCTGCAACTTGTTGATTAC  
AAAAATTGGTAAAGATTTGAAGCTGAAATGAGGCGAGTCTTAGCAAAATGAAACCAGGAT  
TGAAAGTCCCTGGAAGGAAGAAACCCAAAAAGAGATTTGAGGAAAAAATCAAAATAATTC  
ACAATTCTGTCCAGGCCCCATCCTTGTCAAGAAAGCCAGATTCTACTTCAATGACTGATA  
GTGCTGAATCTTTTTTGGAAAGAAAAAANGAATTGGAAATTGAATGCTTTGGATC  
TCCAAGTANGAAATTTTGA

Sequence 1453

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGGTACCTGCTGTGCTCTTGCTTGAC  
AGTGTCTGGAGCTGGACCTGGCTCTGGGTTTCCAGGAAGCAGTTTGCTAAAGGCAGCAA  
GCTGCTTCTCTGCTGCCTGAGATACCAGATTCCCAATGGCGAAGATTGAGAAAAACGCT  
CCCACGATGGAAGAAAAAGCCAGAACTGTTTAACATCATGGAAGTAGATGGAGTCCCTACG  
TTGATATTATCAAAAGAATGGTGGGAAAAAGTATGTAATTTCAAGCCAAGCCTGATGATC  
TTATTCTG

Sequence 1454

CCCTTAGCGTGGTCGCGGCCCGAGGTACCACACCCAGATTATCATGGCATATTATTAATTC  
TTCCATGCACAAAGGTCTTGCAGAAGGACCTCAATGGTTTATTACATCAGAGCACGCAT  
AGTAGTGCAGATTATGTTCTGTCTCCAAATAGTAGATTACCATTCGCTTCCAGTGAT  
GGCACTGTGTCTTGTAGTATTGGAAGAAAAAGGAAGTAGCCCAAGTTCCTCCTTTGTGG  
ATGACCTGGAGATCTCTCCTGAGTTTACTGTAAGGTGAATCAAGAATATAGACAGGCAT  
CCTTCATTGTTGGTCTTAATGCATGAGATGGATGACTTTATAACATGTAATGATGACCTA  
NGGTGAAGCTCANGTAGATTACAGAGGAAGACACAGACCACAGAAGTTGCAAACTGGTGG  
TCCACAAACATGCTTGGGTTGGCTTGNATAGTGTGAGGCAACCAGTTAAACTGA

Sequence 1455

CCCTTAGCGTGGTCGCGGCCCGAGGTACGCGGGGACCTGCTGTGCTCTTGCTTGACAGT  
GTCCTGGAGCTGGACCCGGCTCTGGGTTTCAAGGAAGCAGTTTGACTAAAGGCAGCAAGCT  
GCTTCCTCTGCTGCCTGAGATACCAGATTCCCAATGGCGAAGATTGAGAAAAACGCTCCA  
CGATGGAAGAAAAAGCCAGAACTGTTTAACATCATGGAAGTAGATGGAGTCCCTACGTTGA  
TATTATCAAAAGAATGGTGGGAAAAAGTATGTAATTTCCAAGCCAAGCCTGATGATCTTA  
TTCTGGCAACTTA

Sequence 1456

CCCTTAGCGTGGTCGCGGCCCGAGGTACAAAATACAAAATTTGGTTTAGCTACCACCCTAT  
TTAGTGCCAACCTCCTTATTTAACCTAATTAGCATCATTTTTCCCTCTGACAAAAACAA  
TTACACACACACACACAGGAGTCATTTTCTCTCTTTTGTAAAGTATGGAGAAATGTTT  
CAAAGAAACTGATCTTAAATATATATATACTTGAAAGCAACTTCTCATAATAAAAT  
TAAATAACTTTTTCTGACTTCTAGGGATATGAAAGCTTTATATATGGGCAAAAAAGTA  
AACATATAATCCGTTTCAATTTGGAGTTGGATAAGTAACAGGCTTAGAAAGGCTTCAAC

Table 2

TA

Sequence 1457

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACCTAGCACCAAAACGTGTTTTGCCACATTATG  
AGGAGAAATTAAGACACATGCAATGGCCCAGAGTTTGGTGGTTTGCAGTCACAAGGAGG  
AAAGAAATGTGTGACTCCAATAAGAGTCCCTCTATACTCATTTGGTTCCCTCGGCCCAGA  
AAGACAAAGGGGAGTTTATTAGAGTGACATAAAAGAAGGGTCGCAC'AAGCAAATCAGTG  
ACGGGGCAAAGCATTGATGGTTTGAAGGAAAACATGCATTATCTTTTCTTAACGGTGTTT  
AATGAATTTCTTTATTATTATTACATTGGCCAACCAGCCTCTAAGGACTTTGGGCAGC  
CCAATGGAAGGCTCTCAAAGGCCTTTGAGTTTAGCTTTTGGGCTTACGATGGTTTAAAT  
AGCCACAGGGAGAAAAAAGCCATCC

Sequence 1458

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTCTTGCCNGTGGACTGAGATGATCCTTCCAA  
CTAAANANAAAAANGGTNTNNAATCCTTTCTTGCTTCCCTTCAGACTGCCTCTGTGCT  
GTCATGGTCTTTCTTGGAAGACCTTCTTCTGCTTCTCTCTAGGAACAACTCGGCCAGG  
TATAGTTGCCTTTCCCAAGATTACAATTTAGCCCAGGATTGAGTCCCATGGTATCTCCGC  
CAGGATAGAACCCACGGGCAAGATTAAATTTATCT

Sequence 1459

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACGGTGTGAGAAAAAGTGGGCCTGCNATGGNAG  
ACTGCACCTNAATGGGCAAAATATGCNNTCCCTTTCTGTTCTTCTTCTGATGGCTGG  
AAGGGAATATGGACCATCTTGGATCATGTGGATAAGACTAACACTCCTATAGGTGGCAGA  
GCAACAGAATAAAGGGAGTCCAATGTCACAGAGCAGAACTAGCACACTGCCTCAGATTGA  
CAATGATAGAAAAATAAGCTCTTGCTTGTATTTAAGCCACTGTTATTTGGAATCTATCC  
CATGAAACAGCCCCATGCTCTAATTAATATGTAACGGAGATGCTTCTTTTCTAAGGATT  
TTTGGTTCTGAAAAATGCCCGCTTAAAAGAAAAGAACCAAAATTGAATAGTNTAAGCAA  
GAAAAGGTTTAATTTTCTAACTTTTTCATGGAAAAATAACACCTTTATTATTGACAATCA  
ATCTTATAAATAACCNAATAGAGATTTTAATTAATAAATCTTGTAATTTCTCAGAAAAGGA  
ATAATTTTAAGGTAATNCATTNGGGGGGGCCTTAAGTTTAAA

Sequence 1460

CCCTTAGCGTGGTCGCGGCCGAGGTACCCAAGCATCATGTGAACACTGTGCAAATGCTAT  
ACAGAGAGTCACGGCANNNTTAACANATGGAGAACAAAAACACAGCAGCGCACAAACGAAT  
GAGTAAGTAAATCCCTATGAATCAATTCAGTCAAGGCATAATACTCTAAATCCTTAAAAA  
GGGGGGAAAAAAGAAATGTAACAGAAATCTATTTCCACAATACACCCAAGGGTAACATAAT  
GTAACATACTGGCTAATGACAATACAAGATTAATAAACAACCAAAACCCACTATCCTGG  
ATTATATTACTTAAATGAGAAGCTAAGTTAAAGATATTGTAGGGAAAGCTCACTTAATT  
ACACTGGTGATGAAATTGGCTTTTCTCTTTTCTTGAGTTTAAGCAGTTATGCCTTGGGC  
CCAACTTTTCTGACCTTGTGAGTAAGTTGAGCCCCATGTTGAGCAGAAGATTTACAGTAG  
CTGTTTTTTATAAGAAAAATCCNNTTTAATTTTAACTTAAGCCGNGAAAAACCAAAAA  
AAAAAAGGGAGAAAAAT

Sequence 1461

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTCCAACCCCATGTCATCTGGAAGAGGACTC  
AGCTGGTTGATCGTCTATCACAGTTTGTGGAGAGACCTATTTTTTTTTTACATTCAGAT  
GCTTCTCAGAGTTCTGTTTATAAACATTGTCAGGAGCAGAGAGTGTTAGGGATCTTCCAC  
TTGAAAGAAAAATGACAAAAAGAATAAAATCACTACTTGACTTGCCTGCGGTTTTGTGTT  
CAGCCTTTCTGCTTAATGCTATTGAGGATTACTCTTGCTCACTAGAGAGCACAGAATGAT  
GTTGTGTCAAGCAAATCGAAAACAGTATAAAATGCTATGTGCGCCTCTCATTTT

Sequence 1462

GATATCTGCAGAATTGCGCCTTTTCGAGCGGCCGCCCGGGCAGGTACGGTGGCGCAATCTT  
GGCTCACTACAACCTCCACCTCCCAGGTTCAAGCGATTCTCCTGCCTCAGCTGCCTGAGT  
AGCTGAGATTACAGGCGCCCGCCACTACGCCAGCAAATTTTTTGTATTTTAGTAGAAA



Table 2

CGGGGTTTCACCATGTTGGCTAGGCTGGTCTTGAACCCCTGAACTCGTGGTTTGCCACACA  
TTGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGACATTGCACCTGGCCGGTATTTCTG  
CTTTTAAAATTATTTATGAATTTGGTTGTCTCATTCCCATGCAGGCTTTTCTACTTTTT  
ACTTGGGAAAATTATTTAACTTCTGTGTAAGTGAATTTATCATATATAAAATGGGGCAC  
TAATAATACCCACTTCAGAAGTGTGAGTATTATGAGGTAATAACATGTAAACGACTT  
AGTTAATGGTAAGCGCTATATATGTGGTAGCTATGGTGATTATGATTATCTACAAATAAT  
ATTGNTCTATAAGTGTCTTANTTCTTTGAAAGAAGGCTTTTCTATTATTGGAATTA  
AAGT

Sequence 1463

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACGGTGGCGCAATCTTGGCTCACTACAACCTC  
CACCTCCCAGGTTCAAGCGATTCTCCTGCCTCAGCTGCCTGAGTAGCTGAGATTACAGGC  
GCCC GCCACTACGCCAGCAAATTTTTGTATTTTAGTAGAAACGGGGTTTCACCATGT  
TGGCTAGGCTGGTCTTGAACCCCTGAACTCGTGGTTTGCCACATTGGCCTCCCAAAGTG  
CTGGGATTACAGGCGTGAGACATTGCACCTGGCCGGTATTTCTGCTTTTAAAATTATTT  
ATGAATTTGGTTGTCTCATTCCCATGCAGGCTTTTCTACTTTTACTTGGGAAAATTATT  
TAACTTCTGTGTAAGTGAATTTATTCATATATAAAATGGGGCACTAATAATACCCACTTC  
AAAAGTGTGAGTATTATATGAGGTAATAACATGTAAACGACTTAAGTTAATGGTAAGCG  
CTATATATGTGGTAGCTATGGTGATTATGATTATCTACAAATAATATTGGTCTATAAGTG  
GTTCTTAAGTTCTTTT

Sequence 1464

CCCTTTCTTAGCGGCCCGCCCGGGCAGGTACTGCCCTAGTCCACAGCTGAGTGGGGCTGGA  
ACTAAGCTACAGGGTTGCTTCAGGGCCCTACAGTCAAGACTTAGGTCTTAGGCCTAAGGTG  
TCACAAACCTGCATGTCTCCCTTCAGGTCCCTAAGTTAGCGGGCCTGCTGTATTGAGAGG  
GGCTGGAGCCACTTTTCAGGGGTGTTTCAGGGACTGATGAGGGACCTAGGTCAGGTGGCC  
TGTTTGCAGGGCTATGGACAGCCCATCTCCCTCCAGGATGCTGGGTAGGCAGAACTGCT  
CTCTGACCACAGCTTGAGAGGGGCTTATGCCAAGATTATGGTTGTTTCAGGACCTGCTG  
TGGGACTGAAATNTGCCTGCCTGTNCTGAGGACACANAAGGATGTATCTTNCTGACTACA  
GGGAGGATTTCTG

Sequence 1465

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTAGCACCAAAACGTGTTTTGCCACATTATG  
AGGAGAAATTAAGACACATGCAAATGGCCAGAGTTTGGTGGTTGGCAGTCACAAGGAGG  
AAAGAAATGTGTGACTCCAATAAGAGTCCCTCTATAGTCATTTGGTTCCCTCGGCCCAGA  
AAGACAAAGGGGAGTTTATTCAGAGTGACATAAAAGAAGGGTCGCACAAGCAAATCAGTG  
ACGGGGCAAAGCATTGATGGTTTGAAGGAAAACATGCATTATCTTTTCTTAACGGTGTTT  
AATGAATTTCTTTTATTATTACATTGGCCAACAGCCTCTAAGGACTTTGGGCAGC  
CCAATGGAAGGCTCTCAAAGGCCCTTTGAGTTTAGCTTTTGGGCTTACGATGGTTTAAAT  
AGCCACAGGGAGAAAAAAGCCATCCTGATGTGGGACTCCTGAAGTGTGCCTACTGAAA

Sequence 1466

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTGCCCTAGTCCACAGCTGAGTGGGGCTGGAA  
CTAAGCTACAGGGTTGCTTCAGGGCCCTACAGTCAAGACTTAGGTCTTAGGCCTAAGGTGT  
CACAAACCTGCATGTCTCCCTTCAGGTCCCTAAGTTAGCGGGCCTGCTGTATTGAGAGGG  
GCTGGAGCCACTTTTCAGGGGTGTTTCAGGGACTGATGAGGGACCTAGGTCAGGTGGCCT  
GTTTGCAGGGCTATGGACAGCCCATCTCCCTCCAGGATGCTGGGTAGGCAGAACTGCTC  
TCTGACCACAGCTTGAAAAGGGGCTTATGCCAAGATTCAAGGGTTGTTTCAGGACCTGCT  
GTGGGACTGAAATCTGCCTGCCTGTCTGAGGACACANAAGGATGTATCTCCTGACTACA  
GGAGGATTTCTGTGCAGGATTTCTGTAAGACTTGTGGCTGANTGGAGCTGAATCCCCGAT  
TC

Sequence 1467

Table 2

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGATGTCCCTGAAGTCCTCCAGGCCAC  
ACCTCCACCCGCCCTTCTGTCTGTATCTGCGGAAATATTTATTTCTGTAATGAACTTTC  
TTGGGGCTCCAGACACCCCTCTCAGCCTCTTCCACACAGAACTTTCCTACACATTCCTA  
CTACCCCTGGAATTCTAACTCAGATGTGGGTAGCAGCTTCCTCAAAGAGAACTTTTCC  
CAGCTGGGTGCTGTGGCTCACACCTGTAATCCAGCCCTTTGGGAGGCTGGAGTGGGCAG  
ATCGCTTGAGCCCAGGAGTTTGAGATCAGCCTGGGCAACATGGTGAACTCCATCTCTGT  
GAAAAATACAAAAATTAG

Sequence 1468

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTCTTCTCTNCTACTTATGCCTTTTCTTC  
TTCCTCCTCACCCCTCATGGCTCCAGGTCCATGCCAGGGAGCATGTTAGCATGTTGTGAG  
GTCTCAAAGTATCTGAAAAGATTGTCTTCTCTGTGGCCAGGCTGCTTAGAGGCAGCCTGA  
TATAAACTGTAAAAAGGGGAGAGTGTTTCTCTGTGTNCTNTGCATCCACTCTTCATGCA  
TTTGCTCCA

Sequence 1469

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAGGTTCAAGTGGTGAGAAGAGGGAGCAAGGCC  
TTTGGAAATAATGAACTCCAGTTGTTCTCATAGGTGCAGCAGAAATAGCGAGAGGTGAG  
ATTATGGAGATTGGTAAGGCGAGATCATCCAAGGGCCTTTTGCTTGGTAAGCCATTTTAC  
TTAATCTTGAGTGCCATAGGGATTCAATGACGGATTGATACAGGGAAATGAAATGATTT  
TTTTTTTTTTGGTTGGGGGAGGCAAGAGTCTTGCTCTGTTGCCAGGCTGGAGTGCAGT  
GGCACAACGTTGCGTTCACTGCAGTGTCTGCCTCCAGGTTCAAGCAATTCTCATGCCTC  
AGCCTACCTTGATAGCTGGGATTACAGGTGCACACCACACACCCAGCTATTTTTTA

Sequence 1470

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTGACTGTGGCTCAGATCTGCGTCGCAGCAG  
CGAGAGAAGAAATCACTCCATATCCGATGAGAGGAAGAGTGGCACAGAGATGGTGTCTAC  
AATTAGAGACATTTCTGACTCCACCTTAG

Sequence 1471

CCCTTAGCGTGGTCGCGGCCGAGGAACTTTTTTTTTTTTTTTTTTTTTTTTGAACAG  
GGTCTACTATATTGCCCTGGCTACACTTCAACTCCTGGACTCAAGCAATTCTNCTATCT  
CAGTCTCCTGAGTAGTTGGGACACCACTGTGCCCAATTTNTATTTTTTAGAANAAATTAT  
GTTCAATCTCCACAGTATACACTCTTATCTGTAGCTTGCAATTATCACTTAATTAAGGAT  
CTTGAAATTACACAGTTTATCAGATCTTCACTCCTTTANAGTATACACGCTGTATACT  
CTAGTCAACCAGNCCCCAATAATTTCTAATCTTTTGCTATTTATTATAAACAAGGACTGC  
NTGCCATACACATACATAAGAGTAAAAAGACAGGATATAGAGTTAGGAACAAATGTGG  
TAAGGATATTGTATGTCAAATATTTATNNGGCTATGCATATTTTATGNNATTTNAGGCA  
CCCCCCCCCCCCCAAAAAA

Sequence 1472

CCCTTAGCGTGGTCGCGGCCGAGGTACTGAGCCTGTGTGTGTCAGGTAATGTGGTAACTTA  
ACATTCATTACAGCATGTCATCACCACAAAGGCCTCTTGTTGGCTGGTGCTATTTTTTTTC  
CATTTTGCCGACAAGGTTTAGAGAGATTGAATCACCTGCTTAGACCCACACACCCAGTAA  
GTGTTGGAATCTGGATTGATGCTGTAATGACCATTATCCAGATCCTTATCACCCTTTGGG  
GAAATTGTCTGAAAATCCCTCTGGGTTATTTAGAGTCAAGCTTTCATCTGGGTCTTCAGA  
AAGTTGTAGTGGAGCCATCTGCACCACCACACACCTGAAGACATTTCAAGGACTAACCTGG  
ATGAAAAGGGAATTGACTTTTAGCTAGGATAGGACAAAAGGGCATAATCATAAAATTAAT  
TCACTTTCCTTCTTCTTTTGAAAA

Sequence 1473

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTGCTCACATATTCAATCACTCCATCTCAAA  
ATTTATGAGGAAAGGGATGCCTGGAGACTGGAAGAACCACCTTACTGTGGCTATGAATGA  
GAACTTTGATAAGCATTATGAAAAGAAGATGGCAGGGTCCACACTGAACTTCTGCCTGGA  
GATCTGAGAGGAACAACAACAACTAGGTGACAGAGACTATGCCAACTATTTGCGCTTTT

Table 2

ATTCTGTTGAGCAAGGAACTGTGACTGAATGTGGAGCTTATGAGCTTCAGTCCATCTCCT  
ATAGTGTGGCTAGTTTGCTATAATATTTAAACATGATTTAAATATCAACAA

Sequence 1474

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGACAGGCTTCATGGTGAGGGGCTAGAAAG  
CAACGTCAGGGCCGTTGCCAGGGAGCCTGAGGGCAGAAGTCAGAGGAGGAAGTTACCCA  
CTTCAGGACTCAACTTGGAAGGCAAGTAGACAGGTCTATTCTGCTGTCAGAAAAATCTG  
CACACTTGAGCTTGGGCACTCACACCGGGTGCTTAGTTTTGTTCTTAGAGTAGCTTCCT  
CACACTGATCTCAAAGAGTAAGTGGACTTTTGGGGAAGGACTTCCTGGTGGGTTTGAAC  
AGAACTGGGGAGAAAGTGGCTCAAAGGCCCCAGGCAGTTGTGGGGCAGAGAAAGCTTTG  
GGCTGCCAGAGAGGAGCAGTCATCTGTCTCCGAGGGGAAGAGCAGGGAGCAGGCCTGG  
TTACAGTGAAAGGGATCACACACAGGGTGCTGCCCCCAAATGCTGCGGAAACGTGGT  
TTGGGGCTT

Sequence 1475

CCCTTAGCGTGGTCGCGGCCGAGGTACTAGTGGGTGTTATTTTGTGAATGAATGTTTTA  
CCCAAACCTTATATGCATATTAGATTGTTTAAAGCTCAATTTAAAGTGAAAAATAGACA  
CTGAAAATTTTTGAGTGATTTACATGTTCATGAAACAATATATCTATTACAAATCA  
TTGAATATTTTAAAGTAATGTCATGTATTCATTTCTTATTTTATCTCCTCAGTAGACT  
GAGATCAGTGTGTAGGGGTGAAGCAAGGAGTCTACCCTGTTTGACTAAGGTAAAAATTA  
ANAATCAGCTGAGAAAAATGGAATTTGCAAAAGTGCTGCCAGATAATGTTAGAAGTGGAC  
CAGAAAATAGGAGTTGGTATAAACTAGACCAGCGAGCTTTTTTCTTCAAGATGCAG  
GTCAGTTTTATTGCTTTTGGTAAATTAAGAGATTGTGTTTCTTGATCTTTATTAAGTAG  
AATACAATGTTAACCTACTTCAAATTTTAAAAATATACCACACATGTATATGTATGNGT  
GTNGTATATACACACAGGGATTTTAAGGGCAG

Sequence 1476

CCCTTAGCGTGGTCGCGGCCGAGGTACCAATTTATTATATGCTGCCTTCAGTTATTTATT  
TATATATTTGTCTCTTAACTAATTGTAAAGTGTTCAATTAATACTGGCTTATAATCCACA  
TGTAAGCAAATTTAAAGTATATCTTAAACATTTACTTTAATATTTTAAATATTATAATTT  
CAAATGAGTTCCAATTTTCCCAACCTGCTCTTAACCAGTATTTTTTTTAAACAGTTCTC  
TACTTCTTAAATGAAATTAAGAACTAAATAATTTCAACCTTTAATAACAAATAAA  
CATCAGGGAAATTTATATGTGAACATGTAATAACAAAATTAAGCTACTGATCTGTAAAG  
GACAGTAAGAAAAATTAGTATTCAAAATGACAGGGAGATATTTAAATACCGACACTGCAG  
CAGCATAAACATGATAAATCTCATTTTGATATAAATGGGGAATTTCCAAGATCCAGCTTT  
TATGCTTTGCTATTCTAAAAA

Sequence 1477

CCCTTAGCGTGGTCGCGGCCGAGGTACTTATAGGCAATAAGGCGAGTCTAAGACCTAAAC  
TAGATAATTTGAGAACAGGGAAAAAAGATTCCATTTGATTCTGAAGGTTACCCCATATA  
CCTATTATAACAGAATAAAATAAATTCGAAACTGCACAACCTCTAAGTTATCAAAT  
CCTATATATGCCTCATTTTCTCAAATGACTCCTAATTTGTGTAAAGAAAAGGCAAAAAGA  
GAAAGGACAGAAAGTATGTCAAGGGGGGCTAAAGCTATGAATACCCTTTTATGTAAACCN  
AGAAAAAATAGATCNCNCCCNTTTTTTAAAGGGGA

Sequence 1478

CCCTTCGAGCGGCCGCGGGCAGGTACGCGGGAACCGAGTCTGACTTCGGCCAGGT  
TAATTTAATCTTTCTGATCTGTAAATGGGTAGATTTCCTGCTGATAGTGGTTTTTTTGT  
GTGGGGGGGGGGTGCCTAAATAACATAAAATATGCATAGCCCAATAAAATATTGACAT  
ACAATATCCTTACCACATTTGTTCTTAAGTCTATATCCTGTCTTTTACTCTTATGTGTA  
TGTGTATGGCATGCAGTCCTTGTATAATAAATAGCAAAAGATTAGAAATTATTGGGGA  
CTGGTTGACTAGAGTATACAGCGTGTATACTCTAAAGGAGTGAAAGATCTGATAAAGTGT  
GTAATTTCCAAGATCCTTAATTAAGTGAATAATGCAAGCTACAGATAAGAGTGTATACTG  
TGGAGAATGAACATAATTTCTTCTAAAAATAGAAATTGGGCACAGTGGTGTCCCAACTA

Table 2

CTCAGGAGACTGAGATGAGAGAATTGCTTGAGTCCAGGAGTTGAAGTGANCCCAGGG  
Sequence 1479  
GGAGAAGGCTTCCATTTACTTCAGAAAGCTACACTGACTCTACTAAAAGGCCCTTTCCCT  
GCTGGCTTTTAGGGAAAAGAGAGAATTCCTCATCAGTCTCAANAATCACAAGCAACAGG  
AAATGGGGGAAAAATCGTTTTACTACAGAATGANAATGNTGTCTGATTCAAGTAATACCTC  
CTTGCATCTTCCCCCTTTAGCNCAAAGAAACCCCACTTAGGCCTCTTCAAGNAATATTCTT  
GAGGTAGCCTTGTCAGAAGGGTGGTCCCTTTACANGACCAGGCANAANTTTGCCTNAAAA  
TAANCAGTTTTGGTTTGGAAATAATTTACCTTAAAGNCCGCCCAAGAGCAACTTGGGNG  
CCTAAAAGGGGGCCTCCCTTTGTNGGAAAATTTGTGNNCAACTTTGGATCCCTCNACCCA  
CAAGNCCCCTCCGTTACCCCTTCCATTTTTGGACCAGNATGGAGGAAAAAACCTTGAAG  
AACCTCACCTTAAAGGGCCNNGAAGGCCTTCCAACACCAAGCCTTAGGTGGACCAGGGGG  
CAAAAAGCCCCAGGACCTTTGGGGGGACCCCTTGGGCTTTCCAGNTCCTTGCTTGGAAG  
CCAGTTCTTGGCCCTTCCAGGAAACCCCTATTANCTCTTNTAAAAATCCCCCGNAAAAA  
ACCAGGAGGCTAATAAGNATGGNCT

Sequence 1480

CTTGATGCATGCTCCTCCGAGCCGNCAGTCTGAGTGGATGANATATCTGNAGAATTCGCC  
CTTNCNGCGGGNGCGCCCGGCAGGNACCCGTTTTTCATCTCTGCCCTTGATAACATCCGT  
GGATACAATACTATCCATACTCCAAGCCGTTATTGATATTTGAACATGTCGNGGCTTGCC  
TNACCTGCCTGCGGGTTTGGATTTCCCATAGATGGGCTTTGGCTCCCTCTGGGGNCTACA  
CTGTGCCCCACATANACAAGGGGAAGCTANACAATTNTTGCNCNCAGTAGGGCCAAATCA  
CCAGGGCCCCAAAGGNGTTGCNAGGCCAAGTGGGCTTGAATAATTGGAAANTCTCTAGC  
CNTNCTTCANCCNACTGGTGGGGNANTTTCAANACCGNACCTGGTTGGCCCCCTTGGA  
GNGNTTTNNTTANAANCNCCAGNGTGGGGGTAATTTTTTTNGGGGAAAAAACCAAGGATA  
ANNGGGAGGCCCAACTTTTTTCTTAATTTAATTCACCAATTGGTGGGAAAAATAAT  
CCTTTTTNATTTTNAANANNCTTAATATAAAAAAAGNTCTCGANGNGNTAATTAACCA  
AATTNGTTTTAATTAATAAAAAAANNAAAAAAANGG

Sequence 1481

AGCGTGGTCGCGGCCGANGTACGCGGGGGCTCACAGTGGGATCCTGTTAGGTGTGGGTGG  
ATGAGAGTCAGGGTCCATCAGTGTATTCAATTAAGTTCATTTGTATAACCCCGTTTAA  
GAATACTGTCTCCAAGTGCCAAGAATGGTGTCTAGGGGATTACCACCTAATTGCTGACT  
CAAGTTGCTGGTTTGCAATGGGCACAGAAGTCTNTTAGTAGGTGGCATGAGTTGAGAAG  
GTTCTGGATCAGAGATAGGGGCCCTCTGATCACCTCCACTCCTATAGGTATGAAGACAG  
AGCTGGCCATGCGCCAGTCTGTGGAGAACGACATNCATGGGCTCCGCA

Sequence 1482

AATTCGCCCTTAGCGTGGTCCGCGCCGAGGTACACAAAAGGGGTTTCATCCACTGTTAGAA  
TAATGGATTAGGCCATTTCTTTGGGGAGCCACAATGCCAGCTTCTTTGGTCTTTTATCC  
TCTTAGACTAGTCAGATACCACAGAGAAAAATCCAGTTGCTGCTTAGAGATAAACATCTG  
GCTGCTATTGTGTGGGAGACAAAGTCCGAAAGAGAAAGCAGGGAGTCTTNAATTAATACA  
TGAACCTATGTCTTAACCCCACTGTTTGCACACTGTCCTGAGTCCAGAGACACTCANTTT  
CACACTACCCAAAG

Sequence 1483

CCAGCGGCCGCGCNCNGGCNGGCACCTGACTTTGGGTAAGTTGCCAGAATAAGATCATCAGG  
CTTGGCTTGGAAATTACATACTTTTTCCACCATTTCTTTGATAATATCAACGTAGGGAC  
TCCATCTACTTCCATGATGTTAAACAGTTCTGGCTTTTTTCCATCGNNGGAGCGTTTTT  
CTCAATCTTCGCCATTGGGAATCTGGTATCTCAGGCAGCAGAGGAAGCAGCTTGCTGCCT  
TTAGTCAAAGTCTTCTGGAACCCAGAGCCAGGTCCAGCTCCAGGACACTGTGCAAGC  
AAGAGCACAGCAGGTCCCCGCGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 1484

CCCTTTCGAGCGGCCGCGCCGGGCAGGTACACTCGGCCACTGTTCTCTGACCTACTGCCAG

Table 2

CCCTAGTGCTGCCTGCACCCAGGAGCTAGCTGTAAGACCTGGGGCAGGTATGCAGCCGC  
TGCAAGCCTTGGTTCCACACCACGCCTGTGAAAGGAAGGAAGGATACAAGGCAATGAGCC  
ACACAGCTCCTTCCAGCGCCAACAGCCACTGCGAAATTAGGCTCTTTTGTCTTGGCCATA  
CTTGTATACCGGCATTCTGGGCTCAGCTGGGCACTGGAAAGCAGCTGTTCCGTGCTTGTTA  
AGGTAATTAAGCA

Sequence 1485

CCCTTAGCGTGGTCGCGGCCGAGGTACAGGGAAAAACAGTAGTTAAGGGTTGCATTCCA  
GGCCTCTGCCTCCATCAAGTATTATTACCAAGCTAAAGAAGCTGAGGGGTGTGGGGGAA  
ATATATTG

Sequence 1486

CCCTTTCGAGCGGCCGCCCGGCGCAGGTACTTTTTTTTTTTTTTTTTTTTATTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTANGACAANCAANANANAAAAANA  
NACAAAAANNTTAAAAAAAANNNAAAAANTTAANNAAAAATNTTGAAAAATTTTTGNN  
NNANAATNNGGCANNNCTTAAAAAANNTGNNNTGANTAAANANANAAAAAAAACANTA  
AAANTGGGANGGGAAAAANAACCAAAA

Sequence 1487

CCCTTAGCGTGGTCGCGGCCGAGGTACATGCAAGCTACTCTTGCTCTTTGGATCCATGGC  
TGAATCTGGACACCAGCAGTGACCAGCTCTAGAGTAAAAAATCAGGAAGGGGGCTGGCC  
ACACTGGGTTGGAGAATCAGACTTTGGGGATACCATGCCATGAGGTGTGTGGCCTCTGGGC  
AACAAAAACAACACCAGTTTAGACTCATCTCCTTGAAACAGAAGGAAAAAGCCAGGCTTGAA  
AACATGGGTTAGAACAAGGAATCTTGGGCCAGGCGCAGTGGCTCAGGCCTGTAATC

Sequence 1488

CCCTTAGCGTGGTCGCGGCCGAGGTACCAGGATGCAAAAGCAAGAATGTTACAGCAGTA  
TTTTTGATAACAACCACATTTGGAAATTATTCAAATGTCCACCCACAGTAAACAAACTT  
ATACAATGGAATCAGTGGACTACAGCATGTAGCTGTTAAATGCAATTAATAATGACAAA  
CATATATAAGCAAGTCACAAAAGTGCATACTTTTAACTTTTAACTTTGACAAACAATAT  
TGTTTGCAGATATATACTGGTAGTAAAACTGTAAATAAAAGTAAGGAAAGGATTACT  
ATAAAAAGGCAATGGTGGTCA

Sequence 1489

ATTTCCAGGCGGTAGGCGTCTACCGGATATCCTGGGTGGCGGAAGCGAAGGCGACGATA  
ACCGGATAGCGATCAGCCAGGACAGGTGTTTTTGGGATCGCAGAACCCCATGCCGATC  
AATCCGAGGATAACCAGCGTCTGGGACAAGACTAACCAGGATCGACGACGTCCGAGCTTG  
CCGAGCAGTGGCAGGCGCCATTGGTCGAGCAAGGGCGACCAGACCCACTTGAAGGCATAG  
GCCAGGCCGATCAGGCTCGCGTACCCGATGGTTTCGCGGGCCACACCGGCCTCACGCAAC  
CACACCGAGAGCGTCGAGAACCAACATGTAAGGCAAGCCGGCAGCAAAGCCGAGCAAC  
AGCAGCACTAACGTGAGGGGCTGGCATTAGGCCGGCGAGCGCGGCGCGCCAGGTTTTAC  
GGGGCATGGG

Sequence 1490

TTTGNAAGCTCCCCGCGGTGGCGGCCGTGGAAGCGGCGCGGGCCGCGAGTTTNGGACGCG  
GCTTTGCCGTNGTCGCCACCGAGGTGCGCACCCCTGGCGCANCGCTCGACGGCCGCCGCGA  
AAGACATCAAGGATTTGATCCAGGCGTCCGCCGCGACGGTGGACCTGGGCCACGCCCAAG  
TGAGCCAGGCCAGCGCCACCATGGATACCGTGGTGGCCAGCGTGCAGCAACTGAGCACCA  
TCATGGCCGAGATCGCGCAGGCCAGCGACGAGCAGCGCAGCGGCATCGAGCAAGTNAACC  
AAGGCCATCGCCCAGATGGACCAGGTGACCCAGCAGAACGCAGCCTTGGTTGGAAGAAGC  
GGCCGCAGCCGGCAGACGCCTTTGCAGGAGCAGGCGCANGAGCTTGAACCAGGTGGTGGG  
GCGTGTTCAAGCTTGTAACAAGCAATTCCTGGGTGCTTAAGATTGGGGGAACGAAATTCC  
ACCTTTGCCAAGGGAGGCACCCATTGCCATTGAACGACTTACCGTTTTTTTAAATTTG  
CCCCCGGGCTTGATTGAATNCCCCAACNGGGATTGGCCGCCACCGTTTATTTCCGCCGGG  
GTTGCCCTGGGCCCGCGCGGCCGCGCATTTNAACTTTNCTTTGNTNGACCGGGACCNA

Table 2

CCANGCNACATTTGCNAGGGCCCCGAAAATTGCNTTGNTTGGGCGGGGCCGGCCANTTTGG  
GCGGGGGGNNCCCCGNGTTNANTGGNTNCCGCCGNAACCANCNAANATNGGGCCCCNCCN  
CNAANTTGAAATTTNTTTGGCCNGCTTTTANGCGGGGGGGNATNTTTGGGCCTTTTNC  
CCAAAATTTCCCANTTTTNGGGNCCCCCNCNCCCCCTTTTTTTTCNGNNTTNTTTT  
TTCTANGTTTNAANNCCCCCNCCCCC

## Sequence 1491

AGGTACGTGGTGGAGCCAGGATCTGTCGGACTCTGGAGTCCAGGTTTGCAGAGAGCCCCC  
GGCTCATCTCGGCTCTCCGGCATCTCACTTCTCCTGCAGGCACGTAGGACCGGCCTC  
AGCTCTGTCAAGATCTGCACTGTAGGACCCAGAGATTTTTTCTTTCTTTGGGTAGTCA  
GACCCATCTGCAAAAGTTTTGCAATCATGAAATCAGATAGCGTATGAAATGCTAGGAATA  
AGCGCAGGTCTAGCATACCACGCGGCCAGCGGTAGCGTGACCTGACAGGAGGAGTGCCTC  
TTCAGAGACATTGGGAAACTGGCGTGCTGTCGCCCGTCCCAGGGTCAGAGTCTTCGAAA  
CCAGGCTTTCTGGGAACCCAACAAGGAGTTTCTGATCGAAGAACCGCACTGAGGACAGTT  
AGTCTTTTTTCCACACTGGGCATTTTCAGCATTGGAAGTCAATGGGAGC

## Sequence 1492

CCGGGCAGGTACGCGGGGAGAATAGAGTGGCTGACTTGCTGATTGAGGTGCGGCAGCTCCC  
GAGAAGCAGGAGAAGCAGAGTTTTTGCAGACAGACCCACGAAGTCAAGCATGCGGAGTGC  
AGCCAAGCCCTGGAACCCAACCATCAGAGCAGGGGGCCACGGCCAGACCGGGTGCGGCC  
TCTGCCCTGCAGCCTCTTCCGGCATGAAGAGTTCTAAGTCTTCAACTTCTTGGCTTTTGA  
GTCCCAGACTCAGCAGGCTCAAGAGGGCCAGCAGTGAGGACACGCTCAACAAGCCAGGAAG  
TACCT

## Sequence 1493

AGGCTTGGCTTGGAAATTACAGACTTTTTCCACCATTCTTTGATAATATCAACGTAGG  
GACTCCATCTACTTCCATGATGTTAAACAGTTCTGGCTTTTTTCCATCGTGGGAGCGTT  
TTTCTCAATCTTCGCCATTGGGAATCTGGTATTTAGGCAGCAGAGGAAGCAGCTTGCTG  
CCTTTAGTCAAACCTGCTTCTCGAAACCCAGAGCCAGGTCCAGCTCCAGGACACTGTGCA  
AGCAAGAGCACAGCAGGTGAGGTCCCCGCGTACCT

## Sequence 1494

TTGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGGCACTTGAGGTAGCTTATC  
TCATTTATTCTTCACGATGAACCTTTCTCCACCATCTAATGGCTTCTTCTCTGCAGCAT  
CTGGTTCTGTATATTCTGGCCACCAAAAGCGAAGTTCTAAATGTTGGACTGAAATCCTA  
GCTCACTGTAGGAAGCCAGCTAAGAGCTGAAAAGATTTTGAAATAGGATTTCTGGAGCA  
GCCAGAGTCAGGCACCAACTATCCTGTCCATAGTCATGTCTCCCCGCGTACCTGCCCCG

## Sequence 1495

AGGTGGCCGAGGTACGCGGGGGGCCAAATAAGCACTATGTAAGTTTTTTTAATTTCCCA  
AACACATGCACAGAATTAATATTGCCTTAAATTTTGTTAGCACAAGTTTGAGAGAGCTCT  
TTAGTTCATAAAAAATGTTTTATGGACCAGGTGCCGTGGCTCACACCTGCAATCTCAAC  
ACCCTGGGAGGCCAGGTGGGAGGATCGCCTGAGCCTAGGAATTTGAGACCATCCTGGCC  
AACATGGTGAAGCCCCGTCTCTACTAAAAATACAAAAATTATCTGGACATGCTGGCGTG  
CGCCTGTAGTCTCAGCTACTAGGGAGACTGAGGTGGGAGAATCACCTGAGCCTGGGAGGT  
GGAGGTTGCAGTGGGTTGAGATCATGTCACTGTACCTGCCCCG

## Sequence 1496

AGGCCAGGGTGGCTCACACCTGTAATCTCAGCACTTTCGAGGCCGAGGTGGGAGGACAG  
CTTGAGGCCAGGAGTTTGAGACCAACCTGGGCAGCATAGCAAGACCCTGTCTCTACAAAA  
AGTTAAAAAATTAGTCGAGCGGCCGCCGGGCGAGGTACAAATAATAGCTGCGCCACACA  
CACTAATGCCCCCCCACAGCCACAGCCTTGGGGCGCTCCAAGGAGAGTGAGTTCAATAC  
CAGCAGTAAGGGCGACTCGCTCCTGGACGTGAATCTAGCATGCAAGATCATTTTCATTAA  
ACACGTAAGTGCACAGCGACGATTACATCTCCTCTTATTTCCTTTGAATGAGAAGCAGA

Table 2

CGCATAACAGCAATCTGGAATAGAAAAGTGGAGCTTTTACAGGCTGTTGTATGTGCACCAA  
GGCCGGGAGAGGCTGACGTCCGTGAGCATCATGTGGCAGGAAAACCGCAAATAGTTCGAA  
AGGCCACACTCTCCAGCACCGACTGAGTAGCTGCTGCAGGAAGGGGGACAAATGGTCCCTC  
AGCAAGGACCCTTTTCAGAAGGAACANGGAGACCGCGTGGAGGGCCCATGANAATGAATT  
T

Sequence 1497

AGGTACCTGACTTTGGGTAAGTTGCCAGAAATAAGATCATCAGGCTTGGCTTGAAATTA  
CATACTTTTTCCACCATTCTTTTGATAATATCAACGTAGGGACTCCATCTACTTCCATG  
ATGTTAAACAGTTCTGGCTTTTTTCCATCGTGGGAGCCGTTTTTCTCAATCTTCGCCAT  
TGGGAATCTGGTATCTCAGGCAGCAGAGGAAAGCAGCTTGCTGCCTTTAAGTCAAAGTGC  
TTCCTGGGAAACCCANGAGCCAGGGTCCAAGCTCCAGGAACACTGGTGCAAGGCCAAAGA  
AGTACAGCAAGGTCCCCGCGTNCCTGCCCGGGGCCGCGCTCCGAGAAATATCNAAGCT  
TTATTCGATACCCGTCGACCTCCGAGGGGGGGGGCCCCGGGTACCCAGCTTTTTGTTC  
CCTTTTAGTGAGGGGTTTAAATTTGCGCCGCTTTGGGNCGTAAATTCCANTGGGTCCAA  
TAAGCCTGGTTTTTCCCTGGTGGTNGAAAAAATTNGTTTATTCCCGCCTTCCAACCAAT  
TTTCCACCACCAAAACCATTAACNGAAGCCCCGGGGGNAGCCANTAAAAAAGTTGGTAA  
AAAGGCCCTNGGGGNTGGCCCTTAAATNGAAGTTGGAGGCTTAAACCTTCAACCATTT  
AAANTTTGGCGGTTTGGCCNGCCTTCCAACNTGGGCCCGGCTTTTTTCCAAAGTTCCNGG  
GGAAAAACCCCTGGTCCNTTGGCCCCANCTTGGCAATTTAAATTGGAAAATTCGGGG  
CCNAAAC

Sequence 1498

GAGTCCCCGCGGTGGCGNTCGAGGTACTTTGGGAGGCTGNTGCAGGAAGATCCCCTGAG  
CCCAGGAGTTCGAGAACAGCCTGGACAACATAAGGAGACCCCGTCTCTATAAAGTAATAA  
TAATAATAAAATAGTTGTTTGCCTTGACGCCAGGGTGAGTAGAAAAGTATGGCTGAATA  
TAAAGCAACAAATATTTATTTTACTTTCTATATACTTCTTAAAGAAAGTTTATTCTTAG  
TAAATAAATACTACCTTTACTTAAGTCCTAACTTCACATTGTCTGTACCTGCCCC

Sequence 1499

TCCACCGCGGTGGCGGCCGAGGTACCAAAGACCTCCAGTGATGCTTATGAACATGTAGCT  
GCTGTTTGGAAGCTGGAAGCCCCATATCAGATGCCTACCACAGAATCTGGAGTTGGGGCA  
GAGTGCTGAATTGGTCGGAGTTACCTGTCTGCTTGATAACTTCAGATGCCTCCTTTCTCA  
GATGGCATTGCTAAGCTCTGCAAAGATCTAACTGTGAGGATGAGATAATTTAATCTTGCC  
CGTGGGCTCTATCCTGGCGGAGATACCATGGGACTGAATCCTGGGCTAAATTGTAATCTT  
GGGAAAGGCAACTATACCTGGCCGAGTTGTTCTAGAGAGAAAGCAGAAGAAGGTCTTCC  
CAAGAAAGACCATGACAGCACAGAGGCAGTCTGAAGGGGAAGCCAAGGAAAGGATTTGAGA  
CCCTACAAGAATGAAGTTGGAAGGATAATAAAAGTCCACAGGCAAGAGTACCTGCCCC

Sequence 1500

GAGACAAAGTCTCACTCTTGCCAGGCTGGAATGCAGTGAGCCGAGATTGCACCACTGCA  
CTCTAGCCTGGGCAACAGAGCAAGACTCCATCTCAAAAAAAAAATTTTTTTAGTAAAAA  
AATCCCGTAGTTTTTTAATGCTACGAAGATGGCAAAAAAGAAGACATAGACAAAGCAGAA  
ACTGATGGCCTCTGCTATTTTCATGCCCTGTGNGACTACTTCATCATTTGTTGGTTGGGG  
GTTTTATAATTTTTTTTCTGTAANATGCGTGTTCCTTCTCTCTATTTTTATTGAN  
AGGGTGGCTGCCTATGGGACAGCAAAGCTAATATTTAGAGTTTGAAGTGCAGACATTGTT  
GCAGGCTTNTTATAAAGGTNGNCCGATTCTTTAAAGTCTATAATAAAGGTNCATAGACCA  
CAGCTTTACAACTTTTAAATCAAAAAGTATTAAGNAGGCTGGGGCANCANNTGGGCTCAC  
CCCCTGNTAATTNCCAAAAACGATGGGGAGGCCCGAGGCAANGGGANGATTTGGTTGGNN  
GGNCCANGNAANTTTCAANACCCAGCCCCCTGGGGTGAANAANAAGGGAAGATCCCCTGC  
CTNAAAAAAAAA

Sequence 1501

GCCATGCTCTCCTCCTCTGCCAGTCTCCTCCACCACTCTCTAACCTGAGAGCCTGTGGAA

Table 2

CCTGCCCGTCTCCCCTCCTCCATCAGACACACCTGCCTAGGAAACAGGAAAGGACCTCGG  
AAGTCTTCTAAGGAGAGTCATGGCGTATTACCAGGAGCCTTCAGTGAGACCTCCATCAT  
CAAGTTCAAAGACCAGGACTTTACCACCTTGCGGGATCACTGCCTGAGCATGGGCCCCGA  
CGTTTAAGGATGGAGGACATTCCCTGCAGCAAGATTCTCCATAGGCCAGNAAGCTGCTC  
CAGGGAAAAAACGCCTCTCCAATGTGATATTGGGAAAGCCGGCCACAGGGATCTACNCAG  
GGGGGGTCCCTCCTCACTTCATCCTGGGATTGATATAAAGCCAGATTGGACATCCAACA  
AGGGAGGGCGCCAGCTTGACTGCTGGGTTTCTGGGCAAGCACCTGGGGGAATCCTTGGA  
CTTNAANAAACCCACAAGTACCCTCGGGCCCCGCTTCTAAGAAACCTAGGTGGGATCCCCC  
CCCGGGGCTGCAAGGGAAATTCGATTATTCCAAGNCTTTATTNGATTANCCGGTTCGAA  
CCCTTNGGAGGGGGGGGGGGGGC

Sequence 1502

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTGGAGACAAAGTCTCACTCTTGCCC  
AGGCTGGAATGCAGTGAGCCGAGATTGCACCACTGCACTCTAGCCTGGGCAACAGAGCAA  
GACTCCATNTCAAAAAAAAAATTTTTTTAGTAAAAAATCCCGTAGTTTTTAAATGCTA  
CGAAGATGGCAAAAAAGAAGACATAGACAAAGCAGAACTGATGGCCTCTGCTATTTTCAT  
GCCCTGNGNGACTACTTCATCATTTGTTGGTTTGGGGTTTTATAATTTTTTTCTGNAG  
ATGCGGGTTTTTCTTCTCTATTTTTATTTGATNGTGTGGCTGCCTATGGACAGCAAA  
GCTAATATTANAGTTTGAAGTGAACACACATTGNTGCAGGCTTNTATAAAGGTAGTCGA  
TTCTTTAAAGTCTATAATAAAGTACNTAGACCACAGCTTTACAACCTTAAATCAAAAAGT  
ATTAAGAGGCTGGGCACCAAGNGGCTCACGCCTGTAATCCCNAAACGATNGGAGGCCGAGG  
CNGGAGGGATTGTTGNGGCCNGGAANTCAAGACCAGCCTGGGGACCAGANTGAGATCC  
TGCCNTCAAAAAAAAAA

Sequence 1503

CTCCATTGGATCTGGTAGGTCTGGTAGTAGGCAATGTCACTCAGCAGGGCGCCGAGAAAC  
AGCGGGACGGTACCGGCCAGCAAGGTGCGATGAAGCGGGCCAGGCGTGACGGGTAGGTG  
AGGGTGGTGGTGTGCGTACGCGGCCGCTCCTTATCGTTGAGCGGCCCTGATGAGGCTCAT  
CAGGGCCGCGCTGACTGCGCTTAAGGAAGGAGCGTGCTGCTTGCCTGCTAGTTACCCCGC  
GATTCGTTTCAAATATGTTGCGTCAGTTGATGCGTGGATGTTGCTGCACCAGGTTTTCA  
CGCTTGGCTTCCAGCTCGGCGATTGCGCGTCGATATCTTCGA

Sequence 1504

AGGTACTTTTTTCTCTTTTTTTTTTTTTTTTTTGTATTTTCGGTAGGGACAGGGTT  
TCTCCATGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCAGGTCTCTGCCACCTCGGC  
CTCCTAAAGTGCTGGGATTACAGGCATGAGCCACCGCACCAGGCCTGCCTTCTTTTTTT  
TCTTACAAGGGAGAAAGCATTTTCCAGCTGTAGATAGTGGTTTGAAAGAGTTAGTGTTTA  
CTATTTTGAGCTCTTTGAAATATGTCTTTATACAGGGGAGTTTCTTTCAAACACATTCT  
TGTAATTAGGATCAGGCATTAGCATCTGAGAGGAATGAGTAATCACCATTCTTCTACTCTG  
CCTTTTCACTGAGGACNGTCACGTGTGGGAATGTAGCGTTACCTTTGCTCTTCTTTTTT  
GCTGCTTATTATCGGGATATCCTTAGGAACTGAGCCGCCAGCCTTACCACCTTATC  
CTCCTGCATCCTGCGTTCCCTC

Sequence 1505

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTGGATTCTTAGTAGAGATGGGATTTACCATGTTAGCCAGGCTGGTCTCGAACTC  
CTGGCCTCAAGTGATCTGCATACCTCGGCCTCCCAAAGNGCTGGAATTACAGGCATGAGC  
CACCGNGCTAGGCCTAGGTTTCACTACTTAAGTGTATGTATTAAATCATTGCTGAGCCATA  
CTGGGTAGTCAAGTTCTTTCTTATACCGGGTTTTGCTTTTCTGAATTTAAATAGCTTA  
ATTTTCAGTTACCAATCATTATTTAGCTTGAATTTCTAGAGAACTAACAAATATCCTNTG  
GATAAAGATAGATCAAAGATTTGTCTGTTTTGAGCANCTTCTTTTCTTTTTTTTGGGA

Sequence 1506

CNCGTGGGCGGGCCCCGGCAGGTAACNGNTNTNTTTTTCTTTTTTGGAGCANT



Table 2

AAAAACGTTTTAATACAGGAAATTATTTTGCTGTACAATATANGCAGACAGTTTGCCTTC  
AGAAATTCAGAAATGCAGNTTTTGNNGGAGGTCANCATCATTGGTCTCAGCTACTAAAGT  
NGAGGATGATTCAGCCACTTTTATTCCAGCCACTCCATTTNTAGCATACTACAGGAGA  
AGTGTNTNTTTAAAGAGGCCATTTTCCTGCAGGATGTTTATTAAATAGNTCCTGGCAAAG  
GAGGTNGCNCGTATAGGGNCCTACAAGGTAACGCTAGGTGGNANNATTNTCCTCCAGNG  
TNNGGGTCTTAAGCCACCAAGGTTCTTCCTCCCATCTACCCCGGAGTACCTCNGGCC  
CGCTCTAGAACNAGGTGGATCCCCCGGNGCTTGCAAGGAATTCNCATATTCAAGCTTTA  
TCGATACNCGTCGACCTTTGANNGGGGGGGCCCGGTACCCCAACCTTTTGGGTC

Sequence 1507

GGTGGCGGNCGCCCGGGCAGGTACAANGTCATGGTGAGCAGGTGTTCTGAGGGAAGACAA  
AGGAAAAGCAGAGGGAGTGTTTGACAATCTGAGCTTCCATATGGCAGACATTTCGGGGCC  
CGTTGGCATGGTCTCAGAGCAGCAACAACAGCATCAATTGAGGTTCATTAATATGCANA  
ATCGCAGGTTTATGTGGACCTACTGAATCAGAACCTGCATTCTAACAACAGTTTTAGTT  
GGTTCTTCCCGCACATTAAAGATTGGAAGCACTGGTCTGGAGGAGGCAGGCTCTACAA  
AAAGGGGTTTTGGGTATTGAGTGAGCCCCGAAAAAGACAACCTGGGAACCTGAGGATTNCA  
GGGATTGTACCCTGANAAAAACAAAGCATTTCANAAANGCCTCAGTAAAGGCCANNAA  
TTTTTAACTTACTCTCATTTTATTTATCGCAACTACATGGTTCCAAGGNATTTTACC  
AAAAATTAGTCTTTCAGGTTTTTCAAACACNTNTTGTTCCTTTTTGCANGATTCCA  
TGGTATTTANTGGGAATTGGGTCTTGGGGGCCAAACCAAGGGGGATTAGNACCCCAT

Sequence 1508

CTCCCCGCGGTGGCGGCCGAGGTACTTGGGTAAGTTGCCAGAATAAGATCATCA  
GGCTTGGCTTGGAATTACATACTTTTCCCACCATCTTTTGATAATATCAACGTAGGG  
ACTCCATCTACTTCCATGATGTTAAACAGTTCTGGCTTTTTTCCATCGTGGGAGCGTTT  
TTCTCAATCTTCGCCATTGGGAATCTGGTATCTCAGGCAGCAGAGGAAGCAGCTTGCTGC  
CTTTAGTCAAACCTGCTTCTGGAACCCAGAGCCAGGTCCAGCTCCAGGACACTGTGCAA  
GCAAGAGCACAGCA

Sequence 1509

ATTGTTTAAAGCTCAATTAAAAAGTGAAAAATAGACACTGAAAATTTTTTGAGTGATT  
CACATGTGTTTCATGAACAATATATCTATTACAAATCATTGAATATTTTAAAGTAATGT  
CATGTATTCATTTTCTTATTTTATCTCCTCAGTAGACTGAGATCAGTGTGTAGGGGTGAA  
GCAAGGAGTCCCTACCCTGTTTGACTAAGGTAAAAATTAAGAATCAGTGAGAAATGGAATT  
TGCAAAAGTGCCCTGCCAGATAATGTTAGAACTGGACCAGAAAAATAGGAGTTGGTATAAAA  
CTAAGACCAGCGAGCTTTTTTTCTTCAAGATGCAGTTCAGTTTATTGCTTTTGTAAAT  
TAAAGANTGGGNNTCTTGATCTTTATTAAGGAGAATACAATGTTAACCTACTTCAAATT  
TTAAAAAATATTCCACATGTATATGGTATGGGGGGNGGATATACNCCNAGGGATTTTA  
ANGGACAGGTTTT

Sequence 1510

CCGCGGTGGCGGCCGAGGTACTGAGCCTGTGTGTCAGGTAATGTGGTTAACTTAACATTC  
ATTACAGCATGTCATCACCACAAAGGCCTCTTGTGGCTGGTGCTATTTTTTTTCCATTTT  
GCCGACAAGGTTTAGAGAGATTGAATCACCTGCTTAGACCCACACACCCAGTAAGTGTTG  
GAATCTGGATTGATGCTGTAATGACCATTATCCAGATCCTTATCACCGTTTGGGGAAATT  
GTCTGAAAATCCCTCTGGGTATTTAGAGTCAAGCTTTCATCTGGGTCTTCAGAAAGTTG  
TAGTGGAGCCATCTGCACCACCACACCTGAAGACATTTTCAGGACTAACCTGGATGAAA  
AGGGAATTGACTTTTAGCTAGGATAGGACAAAAGGCATAATCATAAATTAATTCATT  
TCCTTCCTTTCTTTGAAAATTTTCTAACTGTGTATCCTCCCAGATATTCCTGGCAA  
AGAAGACCCCAAGTGAAGCCTTGGTTTGAGAACTGGGACTGTGTGGGGCAAGTGAANGT  
GGTCTGGGGGATAAAAGAATATGGTGGTTGCTGAGTGTGGNGTAATTNCAGCTTCTCANG  
AGTTGGGAGGATGGTTGNACCCGGGAGTGGGGANGGCCGNCCTGGGCACATGGCAAGGNC  
TCATCTCTTAAAAAAA

Table 2

## Sequence 1511

TCCACCGCGGTGGCGGCCGCGCCATGCTCTCCTCTGCCAGTCTCCTCCACCACTCTCT  
AACCTGAGAGCCTGTGGAACCTGCCCCGTCTCCCCTCCTCCATCAGACACACCTGCCTAGG  
AAACAGGAAAGGACCTCGGAAGTCTTCTAAGGAGAGTCATGGCGTATTACCAGGAGCCTT  
CAGTGAGACCTCCATCATCAAGTTCAAAGACCAGGACTTTACCACCTTGCGGGATCACT  
GGCCTGAAGCATGGGGCCGGGACGTTTAAGGGATGAGGACATTCCCTGCAAGCANGATTG  
TTCCATAAGGCCCANAAAGCTGCTCCAAGGAAAAACCGCCCTCTTCCCAAATGGTGGATN  
TTGGGAAAGCCGGGCCACCAGGGAATCTTACCCAGGGGGGGTCTTCTTCACTTTTCA  
TCCCTTGGAATGGATTANTAAANGCCCGATTCTTACCAATTCCCAAACCAAGGGAA  
NGGCGGCCAAGCCTTGACCTTGCTTGGGGTTTNCCTTGGGCCAAGNCAACCTNNGGGG  
AATCCCTTTGGACCTNCCAAAAAANCCCCCAGGGTTNCCCTTCCGGGGCCGGGT  
CNTAANNAAACCTAAGGGGGGGATTCCCCCCCCGGGGCCTTGGGAAAGGGAAATTTNCGA  
NTATTTANAAGGCCCTTNTTTGGGATTCCCCGGGCGGAANCCTTCCGAAGGGGGGGGGC  
C

## Sequence 1512

GGAGCTCCACCGCGGTGGCCGAGCGGCCGCGGGCAGGTACCGTGAGTGCACTGGAGTG  
GGAGGGCTGCATGATGTCTGTGTACCATACTCTGCTGGTTGTCTTTACCTGACTGCT  
CCTCAGTCTCCTTTTACAGACATATTTGTCTGCTGTGCTTACATGTTGTGCTTCTCA  
TGGTTACCCTAGGCTCTGCTTTAATTTCTCCCTACTTTCTCCTGAAATTGTTATCTGTAT  
CCTCATTATTCTTAACAATATCTTACGCCAGTTCTTGTGCCAGAGCTTCACATTATAT  
AGCTCAATTCTACTTAACATTGCCACCTACATGTCTCAAATTCAGCAAGCCCCAAATG  
AGTATACCAGTTCTGCCCCAAATATATTTCCCCCACACCCCTCAGCTTCTTTAGCTTGG  
TAAATAACTTGTATGGAGGCAGAGGCCTGGAAATG

## Sequence 1513

GCCGCTGACCGCCCCGCGCCGAAGTCTGCTGGGCAAGCTCTACTACGAAGGCAAGTGG  
GTCCCGGCAGATGCCAAGGCCGCGGAAGAGCACTTCCAGAAAGCCGTCGGCCGCGAAGTG  
GCTGCCGACTACTACCTCGGCCAGATCTACCGCCGTGGCTACCTGGGCAAGGTCTATTG  
CAAAAGGCCCTGGACCACTTGCTGACGGCTGCGCGCAACGGCCAGAACAGCGCCGACTTC  
GCGATCGCCCAACTGTTTTCCCAAGGCAAGGGCACCAAGCCCCGACCCGCTTAACGCCTAT  
GTTTTAGCCAGTTGGCCAAGGCCAGGACACGCCGAAGCCAACGACCTGGCGACCCAG  
CTCGAAGCTGCGCTGCCCCGGAACAACGCGCCGAAGGCCAACGCCTGGTGCAACAGGAG  
CTGGCCGTGCGCGGCACCCCTGGCC

## Sequence 1514

GTGCGCTCGGTCGTTGCGGCTTGCGGCGAGNCGGTATCAGCNTCACTCAAAGGGCGGGTAA  
NTACGGGTTATCNCACANNAATTACGGGGGATTAAACGCCANGGAAAAGNAACCATTTNGT  
GNAGCAAAAAAAGGGCCAGCCNTAAANGGCNANGGTAACCCGTGAAAAAAGGGGCCCG  
CCGNTTGGCTTGGGCCGTTTTTCTCATTAAAGGGCTTCCCGCCCCCCCCCTTGNACCGAG  
GCATTACAAAAAAATTCGACCGCTTCAAAGTCCAGGAGGGTTGGGCCGAAAAACCC  
GAACCAAGGGGACTTATTAAGAAAGNATTNCCCCAGGGCCGTTTTTCCCCCCTTGGGGAA  
AGGCCTTCCCTTCGGTGGCCGCTTCTTCCCTGNTTGCCCGNACCCCTTGCCCGGNTTTT  
ACCCGGNAATNACCCCTGGTCCCCGNCTTTTTCTTTCCCTT

## Sequence 1515

GCTCCTTGCACTGCAGGCACAGTGGCTTCTCCTGAGTCCCACGGCACATTCTTCTACTGG  
GCTCAAGCTGCCTTGCTGAAGGGCTTTGTGCTACTGTCCCTGTCTTAAGGTCTTCATG  
ACTCGTGGGGGTGATAAGACTCAAGCCAGCAACTGAGAAAGGATGAATATTCAAAGGAAG  
GGAGGAACACATCTGGCTGGAGTGATCAGGAACATTTTAAAGGAGAAGGTGACAACTGA  
GCAGAGGAGCTTGGTCTTGAAGAAATGGAGAGATGGGATAATATCCAGAAGAAGCAATG  
GAGTAAAGTTGTGAAGGTGGTTCCAGAGCAGTGAAAGGTCTAGTTTCCCTGGAGCCTTGT  
CTTTGGGTAAAACTGCAACTGCATGCCAGCCTACTGATACCTGAGTGCTGATAAACAAAG

Table 2

GCCGTTTTTGTGGGTGAAACAGCCATAGGCCAGGGTGCAAGGACTTTGTCAGGANAAAA  
GGAATTGGGTTTTTGTCCCATTTGGTCTCTGCCCCANATGCCTTAACATTTTAAAG  
TCTTTTCTTTCCANTTTCTTTTTCTTTTTCTA

Sequence 1516

CGTTTTTCCATAGGCTCNCGCCCCCTGGACGAGCATCAACAAAAATCGACCGCTTCAA  
AGTTCAAGAGGTGGGCGAAAAACCCGACAGGACTATAAAGATACCAAGGCCGTTTTCCCC  
CTTGNAAGCTCCCTCGNGCGCTCTTCTTGTTCGACCGCTGCCGCTTACCCGGNATAC  
CTGTCCCGCCTTTCTCCCTTTTCGGGGAAGCCGTGGGCCGCCTTTCTCATAGCCTCACC  
GCCTGTAGGGTAATCTCAAGTTCGGGTGTAAGGTTCGTTTCGCTCCCA

Sequence 1517

AGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTGGGACGGAGTCTTGCTCTGTGCCCCAG  
GCTGGAGTGCAGNGGCAGATCTCGGCTCACTGCAAGCTCCGCCTCCCGAGTTCACACCA  
TTCTCCTGCCTCAGTCTCCCAAGTAGCTGGGACTACAGGCGCCTGCCACCACGCCAGCT  
AATTTCTTGNATTTTTTTTTTTTTTANGANANACAGGGTTTACCATGTTAGCCAGGGAT  
GGTCTTGATCTTCTGACCTAGNGATCCGCCTGCCTNGGCCTCCCAAATGCTGGGGATTA  
CNGGGCNTGGATTACNCACCCAGGCCCTTATTAAGCTTGCATTTNTAAGGAAAGTTTTT  
TGAAACCTGGAAATGGTTAANAAACAACCNNGNTACCTTTAANATTNAGNATTAAACCT  
AGTAAGTGGTANTGACNNCAAAAGTCTGCCATTTTACCNCAAAGGAATTTTCAAGTCTGG  
GATTTTCAGTCTGGAATCCCATTGATTAGGAAAAAGGAAAAAATGCAAAGTTCT  
TACTTGCTTTGG

Sequence 1518

CCGGGCAAGGTACTCCACCTGCCTAGGCCTCCCAAAGTGCTGGAATTACAAGCGTTAGTC  
ACTGTGCCAGCCTCTCTCTACCAATTTCCACCTGTCTTCAAGGCCAGCCGCACTGCT  
GCTTCAACTGTAAAGCCTTCCCTAGCTCCCCAGCTAGAGTTATATATTGTAACACCTAGC  
ATAATGTTTCGTGTTTAGTGAAACTATGGAATTGCCTTTTAAAAATTTATTTATTTATT  
TATTTTTTGAGCTGGGGTCTCACTGTCAACCCAGCTGGAGTGCAAGTGGTGTGATCTTGGC  
TCTCTGCAACCTCCGCCTCTCAGGCTCAAGCGATCCTCCCCCGGTACCTCGGCCGCTC  
TAGAACTAGTG

Sequence 1519

AGGTACCAAAGACCTCCAGTGATGCTTATGAACATGTAGCTGCTGTTTGAAGCTGGAAG  
CCCCATATCAGATGCCTACCACAGAATCTGGAGTTGGGGCAGAGTGCTGAATTGGTCGGA  
GTTACCTGTCTGCTTGATAACTTCAGATGCCCCCTTTCTCAGATGGCATTGCTAAGCTCT  
GCAAAGATCTAACTGTGAGGATGAGATAATTTAATCTTGCCCGTGGGCTCTATCCTGGCG  
GAGATACCATGGGACTGAATCCTGGGCTAAATTGTAATCTTGGGAAAGGCAACTATACCT  
GGCCGAGTTGTTCTAGAGAGAAAGCAGAAGAAGTCTTCCCAAGAAAGACCATGACAGC  
ACAGAGGCAGTCTGAAGGGAAGCCAAGGAAAGGATTTGAGACCCTACAAGAATGAAGTTG  
GAAGGATAATAAAAGTCCACAGGCAAGAGTACCTGCCCG

Sequence 1520

ACCGTGGTGGCGGCTCGGACCGTNGTGGCTCACGCCTGTAATCCCAGCACTCTGGGNGGC  
CAAGGCGGGTGGATCACANANGTCAGGAGATCAAGACCATCCTGGCTAACATGNCTCTAC  
TAAAAATACAAAAATTANCCGGGCATGGTGACAGGCTTCTGTAGTCCCAGCTACTCGAA  
CAGGCTGAGGCAGGCAGAATGGCGTGAACCCGGGAGGCAGGAGCTTGCAAGTGAAGCCCGA  
GATAGCGCCACTGCACTCCAGCCTGGGTGGACAGGAGCGAGGACTCTGTCTTCAAAACNA  
AANCGNTNAGAACCTNTAAAGGGGGGCTCCGGCNCGCTCTTANNAACNTAGNGGGAATC  
CCCCCGGNGCNTGCAAGGGAAATTCGATTATCAAAGCTTTATCGGATACCCGTNCCGA  
CCCTTCGGAGGGGGGGGGCCCCGGTTACCCAGCCTTTTTNGGTTTTCCCTTTAA

Sequence 1521

AGGTACGTGGTGGAGCCAGGATCTGTGCGACTCTGGAGTCCAGGTTTGCAGAGAGCCCCC  
GGCTCATCCTGGCCTCTCCGGCATCTCACTTCTCCTGCAGGCACGTAGGACCGGCCTC

Table 2

AGCTCTGTCAAGATCTGCACTGTAGGACCCCAGAGATTTTTCTTTCTTTGGGTAGTCA  
GACCCATCTGCAAAAGTTTTGCAATCATGAAATCAGATAGCGTATGAAATGCTAGGAATA  
AGCGCAGGTCTAGCATACCACGCGGCCAGCGGTAGCGTGACCTGACAGGAGGAGTGCCTC  
TTCAGAGACATTGGGAAACTGGCGTGCCTGTCGCCCCGTCCCAGGGTCAGAGTCTTCGAAA  
CCAGGCCTTCTGGGAACCCAACAAGGAGTTTCTGATCGAAGAACCGCACTGAGGACAGTT  
AGTCTTTTTTCCACACTGGGCATTTTCAGCATTGGAAGTCAATGGGAGCCCTGCGTCT  
Sequence 1522

CCGGGCAGGTACAGTTTTGACAGAAGGCACACATTTTATTTCTAAATTTCTGTTAAAACA  
GGATCCTCCAGTTTGAGTCCGTTTACTTTTTGCAAATGGTGGAGTTGGAGACAGTAGAGA  
AAGTTTTGCAGCGTTAAGTATGATGTCAATTAAGGTTATAAAAAGCAAATGTGAAGG  
TCCTTTGTAAAAGAAGTGGTTCACTGGGCGTGAGTTGAATTTACAAATTAANCTTTTGA  
AATTAATGCTAAATATCAACTTATAAACATTTTCCCTGGAAAGGAAAAAAAAAAGTA  
TTATTCTTACTTCTGGCAAGCCATATTTCTTTTTATCCACCAGTAATGCCTCTGGAACC  
TTGTCCCATTC AAGGTGAAACCCCACTTGGAAAGGTGGAAGTGAATCAATCTGGTAA  
AGGTGCCATCCCAGGGGGTCTCCCCCTTGAGNCACCTGCTTTGTCTGAGGAGTCATCAA  
ACTTCCACGTTTGAAAAGCCATGACCCATTGTTGAGGGATCCTCAGGGGAAAGTTGCCT  
TTGGATCATAGGGGAAACCAGACCAGGGGGCCTTNAAGGGAAAGGGGTNCANTACTTTGG  
GCTGTTATNGANGTTGTCCNATTGTCCAACAAGGGGGGGACTTGGGCCGCCTCTTCCCTT  
TGGGGCCAAA

Sequence 1523

CGACGCTCAAGTCAGAGGTTGGCNGAAAACCCCGACAGNGACTTNTTAAAGATACCAAGG  
CCGTTTCCCCCTGGGAAAGCTTCCCTTNGTGCCGCTCTCCTGTTCCCGACCCTTGCCCGC  
NTTACCCGGGAATTACCTTGTCCCGCCTTTTCTTCCCTTTTCCGGGGGAAAGCCGTT  
GGGCCGCCTTTTCTCAATANGCCTTACCCGCTTGTANGGGTTATTCTTCAAGTTTTCG  
GGGTGGTAAGAGGTTGTTTTGCTTCCAAAGGCCTTGGGGCCTTGTNGTTGCCACCGG  
AAACCCCCCCCCGTTTCANGCCCCCGACCGGCTTGGCCGGCNCCTTATTCCGGGTAAAC  
CTATTCCGTTCCCTTTGGAGGTTT

Sequence 1524

CGGCCGCCCGGGCAGGTAAGTCCAGCTGAGTGGGGCTGGAAGTAAAGCTACA  
GGGTTGCTTCAAGGCCTACAGTCAAGACTTAGGTCTTCGGGCCTAAGGTGTCACAAACCT  
GCATGTCTCCCTTACAGTCCCTAAGTTAGCGGGCCTGCTGTATTGAGAGGGGCTGGAGCC  
ACTTTTCAGGGGTGTTTACAGGACTGATGAGGGACCTAGGTGAGGTGGCCTGTTTGCAGG  
GCTATGGACAGCCCCATCTCCCTCCAGGATGCTGGGTAGGCAGAACTGCTCTCTGACCAC  
AGCTGAGAGGGGCTTATGCCAAGATTAGGGTTGTTTACAGGACCTGCTGTGGGACTGAAA  
TCTGCCTGCCTGTCTGAGGACACAGAAGGATGTATCTCTGACTACAGGAGGATTTCTG  
TGCAGGATTTCTGTAAGACTGTGGCTTGAGTGGAGCTGAATCCCCGATTACAGAGCTTTT  
CAGCATATGCTATGAGACAGAGATTGGCAAGTCTGTACCT

Sequence 1525

NCCACCGNGCCCGTACTGGCCGCCGCCAGCGACAGCGGGCGCTCGAACAGCGACGGCGT  
CACGAATGTACCCGTCCGACCATCACGGGCCGCGCCGAAAGCGGCAGCACCGTACCCCT  
GTACGATACGGATGGCGTCACCGTGCTGGGCACGACAGTGGCCACGGGCGGCGTGTGGAG  
CATCACCAGCAGCGCGCTGGGTGATGGCATCCACAGCCTTAGCGTGAAAGCCACTGATA

Sequence 1526

CCGGGCAGGTAATTTTTTTTTTTTTTTTTTTCGGGCCTGCCTATTTCCGACTGTCTCTC  
TCTGTTACTCGATGTCTCCTTTTCTGTCTACATCCTAAACCTCCTGAACCCACCAGTA  
ACATTCATTGCTAAGCAGTTGCTAACACCTGTTCAANAATCTCCTTCAAATATCTGCAGGT  
TCCAAGATTTCAAAAACCTTACCCTTATTCACAATACACCAGCTACCACAACCACTGGCC  
ACTAGGGAGGCAAAATAGCATAGCAGTCATGGATGTGAGAGTTGACTGTTTGGAGTCAG  
GCTGCCTGGGCTCAAATCCCACCTTTCATCAGCTATGTGACCTTTGGGCAAGCTACCTAA

Table 2

CTTTGCTATGGCTTAGTTCATCTTTTGTACTCCAGGAACAACAGTAGCAACTACTTCCTA  
AGTGCTATGAACTGAATGTTTGTGTCCCTGAAAAAATGTATATGTTGTACCCCTAAATTC  
CACTGTGATGGTATTTGGAGATAGGGCCTCTTGAGAGAA

Sequence 1527

AGGTACAATGTGGGACTTTGGTGGAAGTGCCTGGGAGAACTTCATAATTACTACCCTGTA  
TGTCATGCCCCCTTGCAAGTAAAACAGAAGTGGCAGAGCAGAGGTCAAAGGCACAGATCAG  
CAAAGGGAATCCTACTGGATCCTGAGACTAGCCTGGAAGGGGTGTCATTTGTACTGGGA  
ATAGAGGTGCACGGCCTGGTGGACCCTCCGAGAGAGCTTAAGATTCATTTTTAAACANA  
GGATTTAAAGACACAATAGGCATTGGAATCGGGTAGTAAGAAGAGAAAACCAGAGCCCC  
AAGTGAGGAAGTGGGTGATCTGTCTNACACAGTTGGTGGGGGAGCTGGGC

Sequence 1528

TGGAGCTCCGNGGCAGCCGCCCGGGCAGGTACAGGTCATGGTGAGCAGGTGTTCTGAGGG  
AAGACAAAGGAAAAGCAGAGGGAGTGTTGACAATTCTGAGCTTCCATATGGCAGACATTC  
GGGGCCCGTTGGCATGGTCCTCAGAGCAGCAACAACAGCATCAATTGAGGTTCAATAAAA  
TGCAGAATCGCAGGTTTATGTGGACCTACTGAATCAGAACCTGCATTCTAACACAGTTT  
TCAGTGGTTCTTCCGCACATTAAAGTTTGAAAAGCATTGGTCTGGAGGAGGAGGCTCTAC  
AAAAGGGTTGGGTATTGAGGAGCCGAAAAGACAACCTGGAAGTGAATTCCAGGGATGAC  
CTGAAAACA

Sequence 1529

AGGTACATGTTATTAGCTTTAGCAGGTAGTTCTAATAAAAGAGTTCAGTATGCTCTTTAA  
ATTTTTTTTTAGAAATTTCTGTGTTTATTCAAATTTATTGAACTTAATTATTTAATATAA  
GAGAACCAAGGAACCACTGAACTTTGAGAACACAACCGAAATGCTAACTTTAGTGTTTA  
TTTGAAGTGTGACTAAAATTTCTATGGCAATATATGAATATTTTGAGAGGTTAGCCCAA  
ATTGTAAGAAATTAATGGTAAGCTGGCATGTTTTGTAGAAAAAAATTTGACTACACAT  
AATTATATTTAGCAATTTTAAACTTTTACCTAGATTCTGTTTACTTGCTGAAGTGGCAG  
TATTTTACCATGTATATCAATCTTTTAAATTTCTTAAACAGTTCTTCCATTTAAGAAGT  
AACCAAGCCAGGTGCAGGTGGCTCACATNTGGTAATCCCAGCTACTCAGGAGGCTGAGGC  
AGAAGAATTGCTTGGAGCCCCAGGAGGCGGAGGTTACAAGTGAGCAGAGATCGCGCCATT  
GCACTCCAGCCTGGGGCAACAAGAGCGAAAACCTCTTNTCAAAAAAAAAAACNG

Sequence 1530

ACTTTTTCTTTACATTTATAATGTGGCTGNNAAAAAATCTTTAATTATGTGGCTGTGTN  
ACACTGGTGACTCATATTATGCTGCTTTCAGACAGCACTGACTAGAGTGTGAGCCCCGTC  
CTCAAGTTGCTTAGAGCTTAACACAGGAGACACAAGTGGAAACCGCTGTATATAAGCTGT  
TTGACAGGGAGCTGCATGGTGCAGAAAAGAGGAACTACCTCTCTGGCAGTGGAATTGCT  
TGTTTGCTGAGAAATAAAGGGANANCTNNNANNAGNNTCNANTNATTNAAAAAATGTGTA  
CCCTTCGGCCGCTTCTTAGAAACNTAAGTGGGATNCCCCCGGGGCTTGCAGGAAATTC  
NNATTTTCNCNGGCTTTTATTCTGATAACCCGTTCCGACCCTTTNAAGGNNGGGGGGGC  
Sequence 1531

CCGGGCAGGTACGCGGGGAGAATAGAGTGGCTGACTTGCTGATTGAGGTGCGCAGCTCCC  
GAGAAGCAGGAGAAGCAGAGTTTTTGACAGACAGACCCACGAAGTCAAGCATGCGGAGTGC  
AGCCAAGCCCTGGAACCCAACCATCAGAGCAGGGGGCCACGGCCCAGACCGGGTGCGGCC  
TCTGCCTGCAGCCTCTTCCGGCATGAAGAGTTCTAAGTCTTCAACTTCTTGGCTTTTGA  
GTCCCGACTCAGCAGGCTCAAGAGGGCCAGCAGTGAGGACACGCTCAACAAGCCAGGAAG  
TACCT

Sequence 1532

CGCGGCGGCTTACAGGCATCAGCCATCACACCCATCCATAAACATTATTAATGTGCNC  
ATGACANAAGTGAACCTAANTTGCTTATGATAAAATGAAATTGGAAGACTAGCTAACAT  
GAAAATTTATATTTTGGCTTTTTCATGTTTTTGATAAAACAGTGATTTGAATGATT  
TTTTGATGTTTAGTAATGGTTTTTATGTTTGTGTTTTNGGTTCTTTTTTTTTGNAGA

Table 2

CGGGAGTCTCACTCTGGTCGNCAGTCTTGGAGTGCTTAAGTGGCGCCCGAATCTTTGNG  
NCTTTAACTTGGCCAAGCCTTNTCAACTTTTTCCCAAAGGTTTCCAAANGCCGNATTTTC  
TTCACTTGNCNNTTCAANNCCNTTCNCCCGNAGGTTAAGCCTTGGGNGAACCTTACCAAG  
GNGGNCGGCCAATTGGCCCAAACCTCAACCGCCCCCGGGGNTTAAATTTTTTTGGTNAA  
TTTTTNTAAGTTAAGNNAGTAACCNNGGANGTTTTCNACCNTGGTGGTTTTGGGCCCA  
TNGGAATGGGNTTCTTNCGNAACTTCNGAACCCCTACGGNTGGAATCAANNCCNANCCN  
TTTTGNGGCCCTTCTTCCAAAAAGTNGGCCTTGGGGGAANTTTACCAAGAGGCCNNTTGN  
AGCCNNNNCCCCNCCTCCCCNTGGGNCCCTNATTGNTTTTAAAATAAAATGGTTTTGCAA  
ATTAGNNGGATTGGGGAAATTAANTTTTTNTNGNTTNAANAATNTNANNCACTTTTTTAA  
AAANTTTTTGAAACNTACNNCCTGTGTTTTTAAAATTTTTTTAA

Sequence 1533

GNGGTGGCGGCCGGGCGTGGTGGCTCACGCCTGTAATCCCAGCACTCTGGGAGGCCAAGG  
CGGGTGGATCACGAGGTCAAGAGATCAAGACCATCCTGGCTAACATGTCTCTACTAAAAA  
TACAAAAAATTAGCCGGGCATGGTGACAGGCTTCTGTAGTCCCAGCTACTCGGGAGGCTG  
AGGCANGANAATGGCGTGAACCCGGGAGGCAGAGCTTGCANTGAGCCGAGATAGCGCCA  
CTGNACTCCAAGCCTGGGTGACANAAGCCGAGACTCTTGTCTCAAAAAAGGAAANTTTNA  
TAATTAAGGNGTTACCTTTTGGGCCGCTCTTAGAACNTAGGNGGGAATCCCCCGGGG  
CTTGCCAGGGAATTCNATATCAANGCTTTATCGGAANACCCGGNCCGACCTTTCAAAGGG  
GGGGGGGC

Sequence 1534

CCGGGCAGGTACTCCACCTGCCTAGGCCTCCCAAAGTGCTGGAATTACAAGCGTTAGTCA  
CTGTGCCCAGCCTCTCTCTACCAATTTCCACCTGTCTTCAAGGCCCAGCTGCAGTGCTG  
CTTCAACTGNNAAGCCTTCCCTAGCTCCCCAGCTAGAGTTATATATTGTAACACCTAGCA  
TAATGTTTTCGTGTTTAGTGGAACCTATGGAATTGCCTTTTAAAAATTTATTTATTTATTT  
ATTTTTGAGCTGGGGTCTCACCGTCACCCACGCTGGAGTGCAAGTGGTGTGATCTTGGCT  
CTCTGCAACCTCCGCCTCTCAGGCTCAAGCGATCCTCCCCCGCGTACCTCGGCCGCGAC  
CATCGAGCGGCCGCGCCGGGCAGGTACTGGATCAAGTTTCTCCTGCGTGAGGTATGGGTGG  
CACTCAACCTGGTTAAGTCACTGGGTATATTTCAAGTCCANGTTTGTTCAGAACCTCTC  
NATCTGGAAGTGGGTGAAATTTGANACCCCAAGGGCTTTTNAACCAGCCCCCTCGTNAC  
CAACTTNCCTCATGGGCCTCCCCAGGCATTCCAAANAACGTTTCCTTTTCCACTGAATC  
ATATTACCCTTTATCAATCTTTTGGGG

Sequence 1535

CCGGGCAGGTACCACAACCTGGTGAACCCAGCAGGAAGGTGGAGAAAAATTTATGAGCAC  
CGAGACCCTAAGATCAGGAAAGGGGAAATCCAAGGGGGGGTCCCGGGCTGACCATCACAT  
TTATGTGGTGCCCAAAAGCCACTATCCTTGATGGATGGGACCCAATGTATGAGTACCT

Sequence 1536

GAAGCCGCCATGGTGCACCACGGCTTGACGGGTGCGCCATTGATCAAGGGTAACGCGGGG  
CGCTTTCAAGATGAGCTCCTCTTGTCTTAAGCTGGCGGTCTTATTGGAGACTGCCGAAT  
GAGAAAATCTGTTGTGTGCTGCTGACGCTGCTGCCGTTGAGTGCGTTTGCATTGAGTAC  
CGATGTGACGAAAGACATTACAGGGCGTGAAGATCGATTACAGCGCGTCGGACGTCGACAG  
CAACATCAGTTTCGATCCAACCTACCAACTACGGCCCCAATGACGCGGAGTGCAAGGTACG  
CTTTACCAATGGTCCGGAAGCGCCGCGTACCCGCAAGGTACGGTTCGAGCAGGGGAAAAA  
TACCAACACCACGGTCAATTTACGCCGTGCCATTATCAAGATGCGTATCCAACCTGACCTG  
CGCACCAGAAATAAGGCAAAAGCGGAGGACGCCTACAGCAATACTCCGCTTATAAACAAAT  
TTCTAGATGGGTTATTAGCAATTTTTTACGCTTTTTTAA

Sequence 1537

CGGTGGCGGCCGGANGTACGCGGGGNCAGGCCATCTCGCTATAGGAAAGGAAAGNNGAACA  
GCATTCATCCTCAACATTTTTACGAAGACAAAATGAAGGACTGGAGTAGANCACTGATCA  
GTGCAGGTGTAGCATAAAAGTGTAATCCTGGAAGATGTGGTGTGAGAAGGTAGCACAAAGT

Table 2

GAAGCAGAGATACAGGANATAGGGAAGGGAAGCTGGAAGCAGANGTCACTGGAGGGAGAG  
GGAGATGGACACATTCAGGGCNTACAAAGCAAGTTCTATGTGATTTTGCTCACTNTCTCA  
ATTGTGGGGGACCCCTNTNAAAATGTTGTACNCTGCCCGGGGCCGGCCCGCTCTANGAAC  
TAGTTGGAATCCCCCGGGGCTTGCCATGGGAATTCNGATAATCCAAGCCTTATTCGATA  
CCCGTCGACCCTCCGAGGGGGGGGGCCCCCGGNTCCCCAACCTTTNTGTTTCCCTTTTA  
AGTGGAGGGGTAAATTGGCGCCGCTTGGGCGTTAAATCNATGGGTCCATAAGNCTGGT  
TTCCCTGGTGGTGGAAAAATTTGGTTTNTATCCCGNTTCACCAAATTTCCCCCGNCAANC  
AATTAACCGAAGCCCCGGNGGANCCATTAAANANGNGGTCAAANGCCCTGG

Sequence 1538

AGGTACAGACTTGCCAATCTCTGTCCCATAGCATATGCTGAAAAAGCTCTGAATCGGGGA  
TTCAGCTCCACTCAGCCACAGTCTTACAGAAATCCTGCACAGAAATCCTCCTGTAGTCAG  
GAGATACATCCTTCTGTCTCCTCAGGACAGGCAGGCAGATTTAGTCCCACAGCAGGTCC  
TGAAACAACCCTGAATCTTGGCATAAGCCCCCTCTCAGCTGTGGTCAGAGAGCAGTTCTGC  
CTACCCAGCATCCTGGAGGGAGATGGGGCTGTCCATAGCCCTGCAACAGGCCACCTGAC  
CTAGGTCCCTCATCAGTCCCTGAAACACCCCTGAAAAGTGGCTCCAGCCCCTCTCAATAC  
AGCAGGCCCGCTAACTTAAGGACCTGAAGGGAGACATGCAGGTTTGTACACCTTAGGCC  
TGAAGACCTAAGTCTTACTGTAGGCCCTGAAGCAACCCTGTAGCTTAGTTCCAGCCCCA  
CTCAGCTGTGGACTAGGGCAGTACCTGCCCGGGCCGGCCGCTCGAGTCGCGCCCACAGCT  
GGAAGG

Sequence 1539

AGGTACCTGACTTTGGGTAAAGTTGCCAGAATAAGATCATCAGGCTTGGCTTGAAATTAC  
ATACTTTTTCCACCATTCTTTTGATAATATCAACGTAGGGACTCCATCTACTTCCATGA  
TGTTAAACAGTCTGGCTTTTTTCCATCGTGGGAGCGTTTTTCTCAATCTTCGCCATTG  
GGAATCTGGTATCTCAGGCAGCAGAGGAAGCAGCTTGTGCCTTTAGTCAAAGTGTCTCC  
TGGAACCCAGAGCCAGGTCCAGCTCCAGGACACTGTGCAAGCAAGAGCACAGCAGGTCC  
CCCGCGCACC

Sequence 1540

TATCCACAGAATCAGNGGGGATAACGCAAGGAANGAACATTGTGAAGCAGAAAGGCCCAN  
CTANANGGCNCAGGGAACCCGTNAATAAAGGCCCGCGTTGCTTGGCCGTTTTTCCCATT  
AGGGCTCCCGCCCCCCTGNCGAGNCATTCAACAAAANAATCGACGGCTCAAAGTTCAAG  
NAAGGNTGGGCCGANAACCCCGGNCNNGGGACTTATTNAAATTATACCCAGGGCGGTTT  
TCCCCCTTGGGGAANGCTTCCCTNCGGTGGCCGCTCTTCCCTGTTTCCCGAACCCCTT  
GCCCCGNCCTTACCCCGGGAATACCCCTTGTCCCCGNCCTTTTTNTTCCNTTCCGGGGA  
AAGCCGTGGGCGNCCTTTTCTTNAATAAGCCTTCAACGGCCTTGTNANGGTAATTCN  
TCCANGNTCCNGGTTGGTTNAGGNNNACGGAATCNGCCTTCCAAAANACCTGGGGGGCT  
TCGNTGNTGCCACCGAAAACCC

Sequence 1541

TCCACCGCGGTGGCGGCCGAGGTACTCAAGAAACCCAGGCCAGAGTTACTGGAGCCCTTC  
CTCACAATTGGCCTTGGCTCCCTCTCCACTTGTGTGTTTTACATTGACTTGATCTTCAG  
TGGAGTAACTCTGAGCAGTGGCTGTAGCTCAGCAGGTAGAAAACTCTCTAACCCCTGAA  
GAGGGGAATACAGTAGCACCATTGAAAAAGAGGTTGTGTATAGAGTTTCATTCTTAAAT  
TTGCTTTGCCAAGGAGAAAGCCTGTGAGAGTGAAAGCAAGGTGGAAGTGGGGTCCAAAGA  
GAGGGAGTAACTAGATGCCATATTAATTTGTATTTCTGGAGAATATGACTGCAGTTTAT  
ATATAACTTGGTTTAAACATTTTGTAACTGCTTAAGAAATTTGGGTTGGGTGGTCCG  
ATTTTCATTTGGAAGAAAAGATTAGGAAGACAGTATAGTTTGGGGACACAAGCATGGCT  
ACCTACAGGAGACAGGTCNGAAAGGAAAATAAGTGATGCAGCCAGCTGAGTACCTGCCCG

Sequence 1542

GACTAATANAANGATACCAGTGCCGTTTTCCCCCNTGGAAAGCTTTCCTCGTGGCGCTCT

Table 2

CCTNTNTCCAGACCCCTTGACGCTTACNNGATTACNCTGTCCCGCCTTTTCTCCCTTC  
GGAGAAGCGTTGGGCGNCTTTTCTCATTAGCCTCACGCTGNTAAGGGTAATCTCAAGTN  
TCNGGATGNTAAGGTTCCGTTCCGNTTCCAAAGNNTGGGGGNCNTGTGTGNCAACAGTA  
AACCCCCCCCCGTTTCCAAGCNCNCCGNACCCGGATTGCCNGCCCCCTTAAT

Sequence 1543

AGGTACTTTTTTTTTTTGTTTTTTTTTAAGAAAAATACCTGGAAAAGCCTTGCTTCTAA  
TGTAGGAATTTTTCCTTACAGTGAGATCTATGTAAGTACAATGTTTGTGGGTTTCACCT  
CAGCTGCCAGGAAATTTGGTATTACATGAGCATTTCAAATAAAGCAACAGTGTATAATTT  
TAAGGCCACATTAGTTTTCAATTTTCACTACTTTTGACACCCTATTCTAAATTTTTGTT  
TCACTTTATCTTTTGCTTTTAATTTGTGTTTTATGTAAATACTTATACAATCTTTATGG  
AATGAGATGGGGCAGAATGGAGGAGTATATCCATGTAAGTTGATTTTATCCACTTTCCA  
ACTATATCTTCTTTCTGTCTTAA

Sequence 1544

TGGCTTCATAGAATGAGGGAAATGTTTATCCTTCTAAAAATATTTANTANAGNGGNCTAA  
GATGAGAGTGTAAGTGAGTAACTTTCTCAATCAAATATTTGNGATATGTTTCAGGAAT  
NTCATTACATGTTNGGTTCAATTTTAAAGCATTNTTTTTATTATTTAAACTTTNAGC  
ATTGGTGACCATCCATGTGCTGCTTTTATTGCCAGCTTAAGTTGTTTTATGACATCTTC  
AGGAAGAAAACCTCTGNTGTCTATTTAATGGAGATGAATTGNTAACTTTTACCATTTC  
AACTATACCTCTCTATGAGTCAGACTTTTATTGATCGTGACAATAANTGAAACCCGGA  
AATGAAGGAAATGTAACANGCGACCNTATGTATTCTTNGTNNGCNCAAATTCCTTTATA  
AAANAGATTGATNCTCTATAATNAGCAAATGTTGTGGATTGGAAATTT

Sequence 1545

CCGCNGTGGCGGNCGAGGTACCAAAGACCTCCAGTGATGCTTATGAACATGTAGCTGCTG  
TTTGGAAGCTGGAAGCCCCATATCANATGCCTACCACAGAATCTGGAGTTGGGGCAGAGT  
GCTGAATTGGTTCGGAGTTACCTGTCTGCTTGATACTTCAGATGCCTCCTTTCTCAGATG  
GCATTGCTAAGCTCTGCAAAGATCTAACTGTGAGGATGAGATAATTTAATCTTGCCCCGTG  
GGCTCTATCCTGGCGGAGATACCATGGGACTTGAATCCTGGGCTAAATTGTAATCTTGGG  
GAAAGGCAACTATACCTNCCCCGAGTTTGTCTAGGAGAGCAAAGCATAANGAAGGTCT  
TTCCAANTAAAGGACCATGNCAGGCACCAAGAGGGCAGTCTTGAAANGGGAAGCCAAGG  
GAAAAGGGATTTTGAGAACCTTACCAANGAATTGAAANGTTGGTAAGGAATAATTA  
GTCCACAAGGCAAAGNAGTTNCCTGGCCCCCGGGGCCGCTTCTTAGAACTTAGN  
TGGGAATCCCCCCCCGGGGCTTGNCAAGGGGAAATTTCCNATNATTCAAAGGCCCTTTAT  
TCGGATTAACCCGTTTNGAACCTTNCAAAGGGGGGG

Sequence 1546

ACGCGGGAGAGTGCTGACTTGCTGATTGAGGTCCGCAGCTCCCGAGAAGCAGGAGAAGC  
AGAGTTTTTGACAGACAGACCCACGAAGTCAAGCATGCGGAGTGACGCCAAGCCCTGGAAC  
CCAGCCATCAGAGCAGGGGGCCACGGCCCAGACCGGGTCCGGCCTCTGCCTGCAGCCTCT  
TCCGGCATGAAGAGTTCTAAGTCTTCAACTTCCTTGGCTTTTGAGTCCCGACTCAGCAGG  
CTCAAGAGGGCCAGCAGTGAGGACACGCTCAACAAGCCAGGAAGT

Sequence 1547

ACTTTTTTTTTTTTTTAAACCATTTCAAGAGAGTCTCTGGATTTCTTGATCCTTGATT  
TGTGGTTTTTCATGTTGTCTGTGAGCTCCAGCAGGGCCTCATCAGCCCTGTCCGTGGTGCT  
GCTCCAGCTCTGTGCTCCCCGATAGGTGGCCCTGCGCTCTATGCACATCCTTCTTAACAT  
AGGAAAGATGTATGCCCTTCAAAGAAAGGCATTCAAGACAGATCAGCACCAAGTGGAGGC  
TCTACCCACAGATGTTAATGTGCATTAAGAAACAGCGTTACTGAGAAATCTGAGCCATCA  
TTCCAGAGTCTCTCCTGGGGAGAAGTTTGTCTTACTGCTGGGTTTTTTTGTGTT  
TTAATTCANAATTTGGAAGTAGAATTTTGTAAATAACCTATCAAAGCCTAGCCTAAGG  
GCTGCCATCTTCTGTCAAATTTCTAGNTNGTTTATACCAGTANAAAAAAGACANTTTT  
AAAGCTCTTCAAAGCTGAATCCTCCTCAATAGTAAGGGGACTGTGTGAAAAGTTTTTTT



Table 2

TATGCTGGGCTTANCCAACCCCTTCTTTTTTCCCCAGCTTACCAGTGGAaaaaaaAGC  
AAAACTTTTNGCCCCNGANCTTTTANNAACTATTTAAAAATAGANGTTTNTNATNGTN  
TTNANNTNAANTGGAGGGGTTTAAAAAATTGTTCTTTTTTA

Sequence 1548

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTAGCACTTGTGAC  
CAACAGCTAGTCTTGCTTTCAACAGCTAGTCTTGCTTTCCCTGATCGTAGATCCCTACTA  
AAAGC1CTTGAAAAGTGTGCATATGCAGGCTACCTAATGATTTAACGGAGGATCAAGATGG  
TTACACTGCAGAGAAACAGGAGGGATAGGGCATATGCCCTTTGTCCAGCAAGACAGACAA  
AACTAGGAACCTTGAATTCTCTTCTGATTCTGTATCTGGAGCCAAGGCCAAGGATC  
AGTTCTTCTAGAAAGTCCCTCCTGTGTGTGTGTGTGTAAATGTGTGTGAATGCAGTCAT  
AACTTCCCTGCCAAAATTCATTGCCAAAAATTTGTGATTTGAAGCAGGCCTTACCTGTT  
AATGCAAATTTGATTCTCAAATCCTAAGAGTTTCAAAGGTTGAGTGAAGTGAGATGAGA  
CTCTTAGTTGAAGATCCAGATGCTTCACTGTTGCTATCTAGATGCTACCAAACTCCAG  
CACACAAAGTATATGAAGAGAGGCTCTANGTTCATGAAATGTTAANAGTTTGAAAAATG  
GGCCTTTGGGGT

Sequence 1549

AGGTACACATTTTGGGGGTCCCACAATTGAGAGGTGAGCAAATCACATAGAACTTGCTT  
TGAGCCCTGAATGTGTCCATCTCCCTCTCCCTCCAGTGACCTCTGCTTCCAGCTTCCCT  
TCCCTATCTCCTGTATCTCTGCTTCACTTGTGCTACCTTCTCACACCACATCTTCCAGGA  
TTACACTTTTATGCTACACCTGCACTGATCAGTCTTCTACTCCAGTCTTCATTTTGCTT  
CGTAAAAATGTTGAGGATGAATGCTGTTCCACTTTCCTTCTATAGCGAGATGGCCTCC  
CGCGTACCTGCCCG

Sequence 1550

AGGTACTTTTAGTGAGATGGGGTTTCACCGTGTTAGCCAGGACAGTCTCGATCTCCTGA  
CCTTGATCTGCCCGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGTGTGAGCCACCGT  
GCCCTCTTTATTCTCAGTAATACACTCTACTCCGAGAAAAATATTGGATTTAAATTGCA  
ATTGATCTGGCTAAAAATTTATCATCACTGAAATTCCTAGAATGTGAAAAAGAAGGTT  
TATTTTTCTGTAATGTGAGTTTCACTGTAGCCTATCAAAGCACATGGATGAAATCGGAA  
TGCCTAAAATTCTGAGGTTGGCAGAAATACACACACTCAAAGGACATGCAATCACATAAA  
CAGAACTACTTTATCTTGACAGCATCCAGGCTGCCTCCATACAAATGTAGCTTCATGTTG  
GTGGCTAGTCCGCATTGCATTTTCAGAGATAGAAAGAAGAAATTCAGAAAGGGAACA  
TTGGCATTGTTTTACAGTAACTTTACCTCGCCTTTAAAAAGACATTGTGCATGCTT  
TACATGATACAGCCAATTTCAAAGGACTTATTCTGGA

Sequence 1551

ACGCGGGGTGAAGAAGAGTATTCTTCTCTGAGAAGTACACTTGAAAAATCCTGTAA  
CTTAGCGTANACTACCAGTTATTGACTTCCAACATTTACTCTGCTTTCTTTTCTAAA  
ATTGATAAAGTCCAAACCTCTCTTGTTTGGATTTGAAATTACTATGTTTTTGGCCNGGC  
GCGGTGGCTCACGCCTGTAATCCAGCACTTTTGGAGGCTGAGGCGGGCAGATCATGAG  
GTTTAGGGAAATCNAGTACCATCCTGGNTAACATTGGTGAAACCCCATCTNCTACTAAAA  
ATACAAAAANATTTAGCCAGGCCGTGGTTGNGTTGGNGCNCNNTGTTAATCCCCAGGC  
TNCNTANCAGAANGGCTGGAGTGCCAGGGANNAANTGGGCCGTGAACCCAANNANGGCG  
GGAGGCTTGGCAGATGAAGCCCGAANATTCACACTTGNTTGCACCTCCCAAGCCTGGGGG  
TGNACCANGANTCCAAAGGAACTTCCCATTTCTTCAAAAGNNAANNNTTGANTANNNACA  
AGANANNNNATTTGGGTTNNCCCTTGCCNCCGGGGGCGGGCACNGGNTTCTTAAAAAA  
CNAATGATGGGAAACCCCCCGGGGCTTGNAAGGGGAANTTTTGAATTTTCCAAN  
GCCTTTATTCCGAANNACCCGGTCNGNAANCNTTCGAANGGGGGG

Sequence 1552

AGGTACACATTGAAATCTGCAACATGCTGGGACTGCAGAGAGCCTGGGCTGGGAGTCGTG  
AGCTCCACCCGGCTGTTTTATGACAGCTGGCAAACACGCTAAGGCACATTGAGGACTC

Table 2

AGTGAGGCAGGTTCTCTGGGCCTCTGTTAGGCTAAGTTTGAAGTTGTTCCATCACTGCCTC  
CCTCTGCCTTCTTTGCCATTTCATCCATGATAGCACTACCCTAACTAGTGATGAGAAGC  
AGTCTTTGGAGTTCCTCTTCTCTCCTGTCCCTCATGGCTAATTTCCCTGCTCAGACTTCT  
GCCTCTGGCTCTCTTTCTTCTGTGCACACTGACTTTTTTCCCTCTCCTGTGCCGAGCTG  
GAGTCGAGCGGCCGCCCGGGCAGGTACACTGCCAGGCAAAGCGTCCNGGGCAGCGTAG  
GCNNGGCGACTCAGATCCCAGCCAGTNGACTTAAGCCCCCTGGTTTGCTCCTCCGAATAACT  
NGGGGGTGACCTTGGTTAAATATTCACCANGCAGCCTTCCCCCGTT

Sequence 1553

CCAGGGAAGGATTAAAGAAGAATTTAACATAGGGAATAAATGCTAAAGAAAACCCCAAC  
AATATACATGTATAGTTAGAAAGAAATACAAAACCTATTGGTTTTTGTGTTGANACAATTCT  
TCCTCCATGGNGGTTTTATACCCATGATCTACAGTTGCCTATTGGATAGTCCAAGGTTTC  
TCATCATTTATGCTAGCAAATTATGATTGCCTGGAAGTGCATTTTAAATTCTTTTTATTT  
GAGATGTATAGAATCTTGCTCAAATGGTATTTTCCAACTGTTGAAAAATAGGGCATTTT  
TTAANAANAACACTTTTACTTTTTTTTGAANAANAAGTTTCTCTGCAGATTGGTCT  
ATAGGNGCGGGTCTTCTGGAAAATTGTTTTTCTGTAGAGAGTGAACATATGTTTGGTAT  
GTGTGTGTCTGAGTGTGTTTGGGGGTGTCTCTGGGTTTCTGGGGGTGNGTGGGGTCTGCT  
GNGGNGTTTGGGNGTTGGNGNCNGGGANNANTGGGGAGCCGGGGGNGAANTGGGGCCTNG  
GGGNCCTGGGGNCTGGGG

Sequence 1554

CCGCGGTGGCGGCCGAGGTACGCGGGGACCTGCTGTGCTCTTGCTTGACAGTGTCTCTGG  
AGCTGGACCTGGCCCTGGGTTTCCAGGAAGCAGTTTGACTAAAGGCAGCAAGCTGCTTCC  
TCTGCTGCCTGAGATACCAGATTCCCAATGGCGAAGATTGAGAAAAACGCTCCCACGATG  
GAAAAAAGCCAGAAGCTTTAACATCATGGAAGTAGATGGAGTCCCTACGTTGATATTA  
TCAAAAGAATGGTGGGAAAAAGTATGTAATTTCCAAGCCAAGCCTGATGATCTTATTCTG  
GCAACTTACCCAAAGT

Sequence 1555

AGGTACTTTNTTTTTTTTTTTTTTTTTTTTTTNGATGGAGTCTCACTCTGTTACCCAG  
ACTGGAGTGCAGTGGCATGATCTTGGCTCACTGCAACCTCCACCTCCCGGGTCCAAGTGA  
TTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGGCATGCACCACCATGCCAGCT  
AATTTTATATATATTTTTTAGTAGAGATAAGGTTTCACCATGTGCGCCAGACCGGTCTTGA  
ACTCCTGACCTCAGGTGATCCACCCGCCTTGGCTTCCCAAAGTGCTGGAATTACTGTGCC  
TGGCCTAGTCATTAATATTTTGATTAACGCCTACCCCTGTGATCAACGACAACCTTATTCA  
GGAAGAAGGGTTCTTTCTACTCTAGTATGCTTCCAGTTATTTACTGNGTATCTAGCTAGG  
TTGNGAAAAGAAAAGAATNTGAAGCNCGNANTTTATGAAACCTAACTGGGCTATCATCTA  
CTTTACCAAATTTCTTTTAAAAAAGCAACCNTCAAACCCCNANAAGAATTTTGNAGCCT  
TTTAACTTTAAAGGCCCTTCACATTAAGTTGGGATTTTTTATTCATATGGAGAANAACNTN  
TNTTTTATGACCTGTGCNCTTTAAAGAAATGATGAGGTTTTTTAAACNCCTAAAGNNGTT  
GGAATTAACNAGTTTTNTAATAAATCCCCAAAAAAAAAAAAACCCAAAAA

Sequence 1556

TGCTCTTTTTTTTTNTNTGTCNCTNCCACTCTGNAACNNGAGAGCCTGNNTAACCN  
CCNGTTTCTCTCCTGNNTTGATACACACCTGCNTNGNNGANNNGNATGGNNNTNGAA  
NNCTNATNNNGAGNCNTNGGGGTNNCANNGGNAGNCTCGGNGGCTAACNTCCATAAGT  
TGATAGGGCAGAACCATTACAATGGGCACGCTTGCCGGGCANCACTGTACTGTGCCA  
TGGGGCCCCGGGACCGTTTTTAAAGGGATTGAGGACAATTTCCCTTGCCANGCNCANGAAT  
TTCTTTTCNAATTAGGGCCCCAANAANGCNTTNCNTTCCCAAGGGAAAAAAAAAACCGCC  
CCTTTCTTTNCAAAATNGTTGGAATAATGGGGAAAGNCCGGGCCCAACCAAGGGAATTC  
CTAACCCCAAGGGGGGGGGTTCCCTTCCCTCAACNTTCAATNC

Sequence 1557

AGGTACATGTTATTAGCTTTAGCAGGTAGTTCTAATAAAAGAGTTCAGTATGCTNTTTAA

Table 2

ATTTTTTTTAGAATTTTCTGTGTTTATTCAAATTTATTGAACCTAATTATTTAATATAA  
GAGAACCAAGGAACCACTGAACCTTGAGAACACAACCGAAATGCTAACCTTAGTGTTTA  
TTTGAACCTAGTGACTAAAATTTCTATGGCAATATATGAATATTTGAGAGGTTAGCCCAA  
ATTGTAAGAAATTAATGGTAAGCCTGGCCATGGTTTTGTACGAAAAAAAAAATTTGT  
CTTACACATAATTTATATTTAGCAATTTTTAAACNTTTTACNCTANATGTCTGTTTAC  
TTTGCTGGAAGTGGCCANGTATTTTACCCATGGTANTATTCAATCNTTTTAAAAATCTT  
CTTAAACAGGTTCTTNCCCATTTTAAAGAAGGTAAACCAAGCCCAGGTNCACTGGCTT  
CACATCTGTAATCCCAGCTTACCTTCAAGGGAGGCCTGAGGGCAGAAAGAATTTGCTTGG  
AGCCCANGANGCCGGAGGGTTACAGTTGAGCCANAGGATNCGNGCCCATTGGCAACTTCA  
ANCCCTTGGGGCCAACCAAGGAGCCGAAACCTTCTTTTTTCAAAAAAAAAAANAANCN  
NGAAGAACCAACCAANCCAAAAATNNCCGGGAATTCCTTTTANNATTNTTAAATATNGG  
AAAAAAACCTTCCANTTTANTTACCGANGGAGGACCTNNTTTAAAAAAATTTTTTN

Sequence 1558

AGGTACACCTACACTCCAGTCTGGATGACAGAGCCGGGCCCTGTCTCAACAGCAACAATA  
ACAAAATGTCAATGTAATATTTTGACCCACTCTCACGTGTCCAAAAGACTTTTAAATTTT  
TGTAAGGATATAATAATGTTATTTCGGGCTGCAGAAAGGTAAACCAATTTCTACGGATAC  
ATAGAATTTTGGGTATTGATTTTTATTAATACCTGAGAGTTTTAAAAACATACCTTTATG  
CTTTGAGAATCCTAATTATTATCGTTATTATTTGCCCTTGAACCTTTTGTATTTATTGA  
TCTTAGTTATCTAAGACCATGCTAGGTCTATGGTATATGGATGCTGCACTCATATTGGTA  
GAATATAATATGAGAGACAGTCTATAGACAAACATATTAATATATGATGACAATCTATGA  
TATATACCATGAAGGAAGCTAACAAGCATAATGTTATGGATTAATTATGAAGGAA

Sequence 1559

AGCTTGGTGTACTTGATGATGTAGGTACGACAGGCCCATGCCGACAAACGCGGCCACCAGG  
ATGAACACCTTGGTGTAGGTCAACTGCACGAAGCCGGTGCCGATGTCGACTCTCCAGGCG  
CCGGCCAGCAGCGTCGGGATGCCTTGTGCTTGGCGCCCTGGGCGATCTGCGCGTAGTTC  
TGCAGGATCAGTGAGATACCGATGGCGCTGATCAGCGGTGCCAGTCGGGTGGAGTTGCCG  
AGCGGTTTGTAGGCGACACGCTCGATGACCCAGCCATAAACGCCAGTGACGACGACGGTG  
AAGATCAGGGTGCCAAGGATGAGCAGCGGGAAGGATTCGATGCCGAAGTAAGCCAGCAGT  
GCCAGACTGATCGCCGCGAGGTAAGCGGAAATCATATAAACCTCGCCGTGGGCGAAGTTG  
ATCATGCCAATGATGCCATAGACCATTGTGTAGCCGATGGCGATCAAGCCATAGACCGAC  
CCGAGGGTCAGCCATTGACCAGTTTGCTTGCAGGAAAATACCATCCATAACGCAATCTT  
CACGCAGTGAGGAGCCTGCACACCTTGTGGGTGTGCGGATCTTTNTA

Sequence 1560

GAATTGGAGCTCCACCCGCGGTGGCGGCCGCCGGGCAGGTAATCTCACCTGTGGGCATT  
TGTCAAAATCAGTATTACTGCTGGGGGGGATGAGGGCTGAAACTCCTATTTACCATTCT  
TTCTGACATCATTTGCCACAGTGTGCTTTTTTTGTTCTGGTATTTCTTATACCCTTGAG  
TCTCTTCCCTATTTTAGTCAACCCAGCAGTCTGTATTCATTCCTCTTAATCAGGATTTGA  
GCTTTGCACCTGCTCCTTTTGGCTGGGGTTGAGTCTACTTCAGAGGCTAGGGATATAGAG  
GGTCCAAATACAATTTAAATAAGAAAAATGCTACGAATAAAAGTGTGAGAAGAATAAGAA  
TTCTAGAAAAAAGAAAAAGAAATGGAAAGAAAAGACTTTTAAATGTTAAGGCATCTG  
GCAGAGAGACCAATGGGAACAAAAACCAATTCCTCTCTCCTGACAAGTCCTTGACCC  
TGGCCTATGGCTGCTTCAACCCACAAAAACGCCTTGTATATCAGCACTCAGGTATCAGT  
AGGCTGGCATGCAGTTGCAGTTTACC

Sequence 1561

GGTGGCGGCCGAGGTAATGAAACATGTTGGAGGGTTAGTTTTGTTAATTTGAAATTTCT  
GGGCTGGACATGGTGGCTCACGCTTATAGTCAGCTGTAGCACTTTGGGAAGCTGAGGTGG  
GAGAACTGCTTGAGTCCAGGAGTTCAAGACCAGCTGGGCAACAGAGTGAGACCCTATCT  
CTACAAAAGTTTAAAAATTAGCCAGGCTTGGTGGTGCATGCCTGTAGTCCCAGCTACTC  
AGGAGGGCGAGGCAGAAGAATTGCTTGAACCGGGGAGGTCAAGGCTGCAGTGAGCCACGT

Table 2

TCATGCCACTGTACTCCAGTCTGGGTGACAGGAATAAGACCCCCTGTCCCNAAAANNATAA  
ANAATANTAAAAAAGTACCTGCCCGGGCCGGNTTCTAAGAACTAGGGGATCCCC  
CCGGGGCCTGCAAGGAATTCNATATTNAANCTTAATCGAATACCCGNTNCGGACCCCTC  
CGAAGGGGGGGGGGGCCCCNGGGTTACCCCAANCCTTTTTTGT

Sequence 1562

GCTCCACCGCGGTGGCGGCCGAGGTACTTAATTTTTTTTTTTTTTTTTTAGTAGAGACA  
GGGTTTCACCATGTTGGTCAGGCTGGTCTCGAACTCCTGACCTCGTGATCTGCCCCCGCT  
TGGGCTCCCAAAGTGCTGGGATTACAGGTGTGAGCCACTGCGCCAGCCACAGTCAGCCC  
AGATTCAAGGGGTGCGTCAATAGACTCTATCTCTTCTGGAAGGAGCTGCAAATATTGC  
GATCACGTTTGCAGTCTACCACAAATGTATTGCTATATGTTAGCGCTATTCTAATAGCTT  
TATATGTGTGAACCTCACTTAATTGTTACAGCAACCCAGAGAGGTGAGTTACTATTTCTAA  
TTATTTCTCAGATGAGGAAGCAGCTACTGAGACGTTGAGTAACCTGCCAAGGTTATATA  
GGTAGTGGCAGAGCTGAATTTGAGTCCACCGCAGTCTGGTTCCAGAGGCTATACTCCAA  
ATAATAAGCTATACCGCCTCAAAGCAAGGCGGAAGAAGCTTTATCACTTGTTTGGAGCAA  
ACTGAATAAGGCTTCAGACTTGTAACATTAAAGACAATTTGGCTCATTTGGCAAAGTTG  
GATATATTGGATGCATTGTTTTATATTAAAGTAAAAATTTTGT

Sequence 1563

GACGAGCATCACCAAAAAATTCCGACGCTCAAAGTNACGANGGTTGGGCGNAAAACCCCC  
GAACANGGGNACTATTAANAGGATTACCCAANGCCGGTTTTTCCCCCCCCTGGGAAAGCT  
CCCCNTACGGNGCCGCTTCTCCCTGTTTCCNGACCCCTTGCC

Sequence 1564

CGGNAATTACCGTTATCCACACCAATCAAGNNGGATAACCGCAAGGGAAAANGAACATG  
GTGAGCAAAAANGGCCCANNNCAAAAAAGGCCANGGGAAACCCGTTAAGAAAAGGCCCCG  
CCNGTTTGCCNTGGGCAGTTNTCTTCCCTTAAGGGCCTTCCCGCNCNCCCNCTTGAAC  
NGAAGTCCATTNCACAAANANAAATTCGGACCGNCTTCCAAAGNTACAAANANNGTAGGG  
CCGAAAAACCCCGAACCAAGGGG

Sequence 1565

GGCGGCCGCCCGGGCAGGTACACATTTTGAGGGGTCCACAATTGAGAGGTGAGCAAATC  
ACATAGAACTTGCTTTGTAGCCCTGAATGTGTCCATCTCCCTCTCCCTCCAGTGACCTCT  
GCTTCCAGCTTCCCTTCCCTATCTCCTGTATCTCTACTTCACCTGTGCTACCTTCTCACA  
CCACATCTTCCAGGATTACACTTTTATGCTACACCTGCACTGATCAATCTTCTACTCCAG  
TCTTCATTTTGTCTTCGTAAAAATGTTGAGGATGAATGCTGTTCCACTTTCCTTTCCTAT  
AGCGAGATGGCCTGTCCCCGCGTACCT

Sequence 1566

NNTGTGGGCTTGTGACCTTTTTCAAATCNTTTTAGTGTCATTTTGGTGAAGTTTAAATG  
TGTATTCAGTCTGCCATTACTGGGAATCTCAGAGTTCTCATTTTAATTTTTCTTATTT  
TTTTAAAGCCTTTGAAATCAGGCATATTTACATCCTGCTTCTTACATTATTTAGCTG  
CAAGAAATGAGCCACTCTGNATAATCTCTTTNGTTTCAGGAAGGGGACATTTTTCCCTGA  
CAATCAATCTTCCAGAAAACCTTTCATTTAGNTTTGAAAGGCACCGGAAATGGCCAA  
CCTAAAGCACCAACTGTTTCGCGTTCCCGGAGTTTGACTCATTGGCCCCACCTTGTGGCCC  
TGTGGGGAAGGGGCGGGCAGGCTGAAGAAACCGCTGACAAATTTAAATTNGCTTTT

Sequence 1567

GGCATGATGGCTCATGCCTGTAATCCAGCACTTCGAGAGGCCAGGCAGGTGGATTGCT  
TGGGCCAGGAGTTCAAGACCAGCCTGGGCATCATGAAGAAACCTGTCTCTACTAAAAA  
TACAAAAAATTAGCCAGGCATGGTAGCTCACACCTGTAGTCCAGCTACTGGGGAGGCAG  
AGGCACGAGAATCACTTGAACCAGGAAGGCAGAGGGTGTGGTTGAGCCAAGATCATGCCA  
CTTGCACTCCAGCATTCCAGCCTGGGCCGAACAGGAGCCAAGACTCAGTCTCAAAAAA  
AAAAANTAAAGTTCCCTTCGGCCCGCTTCTAGAAACTAGTGGGATCCCCGGGCTTGCA  
GGGAATTTGATATCAAGCCTTATCGGATACCCGTCGACCCTTNGNAGGGGGGGGGGGCC

Table 2

CGGGTACCCCAGCTTTTNGTTTCCCTTTTAGTGAGGGGTTAAATTTGGCGCCGCTTTG  
GCNGTAAATCATTGGGTCAATAGCNTGTTTCTGTGTNGAAAATTGGTTTATTCCCGCTC  
ACAATTTNCACACAAACCATTACGGANGCCCGGGAGCATAAAAGNNGTAAAAAGCCTGGG  
GTGCCTAAATGAAGNNGANGCTAACCTCACATTTAATTTGCGGTTTGCCTCACTGGCCC  
CGGCTTTTCCAAATCNGGGAAAACCTTGTGNGNNGCCCAAGCTTGCATTTAAATGAAAT  
TCGGGCCCAACCC

Sequence 1568

NNAATCAGGGGGATAACCGCANGGAAAAGAACATGTGAGCATAAAGGCCAAGCCAAAAAG  
GCCCAGGNAACCCGTTAAAAAGGCCCGCGTTTGCNTGGCCN\*TTTTTCCATTAGGGCTCC  
CGCCCCCCTGAACGAAGCATTCAACAAAAAAATTCGAACGCTCAAAGGTNANGTAAGGG  
TGGGCCGAAAAACCCCGGAACAGGGGAACTNATTANAAAGGAATTACCCCAAGGGCCGG  
TTTTTTCNCCCCCTT3GNAAAAGNCTTCNCCCTTCCGTTNGCCGCCTTTTCCCTGGTT  
TCCCGG

Sequence 1569

CGGTTTATCCACAGAATTCAGTGGGGATAACGCANGAAAAGAACATGTGAGCCAAAAAGG  
CCANNCAAAATNGCNCAGNGAACCGNTAAAAAAGGCCNGCGTTTGCTGGGCGGTTTTT  
TTTTCCCATAGGGCTCCCGGCCCCCCCCCTTGNACCGNAGCCATTCAACCAAAAAAAT  
CGGACCGCCTTCAAAAGTTCANGAAGGGTGGGCCGAAAAACCCCTNACCAGGGGAACC  
TANTAAAAAGGATTACCCAGGGGNCGTTTTTCCCCCCTTGGGAAAAGGCCNTCCCTT  
CCGTTNGNCGCCTTCTCCNTTGNTTTTCCGGAACCCCTTGGCCCGNTTTTACCCCGGG  
NATTANCCCTNGTTCCCCGGCCNTTTTTCNTTCCCT

Sequence 1570

GCCCGGGCAGGTACAGACAATGTGAAGTTAGGACTTAAGTAAAGGTAGTATTTATTTACT  
AAGAATAAACTTTCTTTAAGAAGTATATAGAAAGTAAATAAATATTTGTTGCTTTATA  
TTCAGCCATACTTTTCTACTCACCTGGGCTGCAAGGCAAACAACTATTTTATTATTATT  
ATTATTACTTTATAGAGACGGGGTCTCCTATGTTGTCCAGGCTGTTCTCGAACTCCTGG  
GCTCAGGGGATCTTCTGTCTCAGCCTCCCAAAGTACCT

Sequence 1571

NGCCGACTTCAGGGCCAGTACCTTTTCGGCGAGGTCCAGCAAGTGGTCCGCGCTGAACAG  
CTCGCGAACGGGTAACCTCCACCCCCAACTGCTCGCGCACCCGCACCACCACTGAGTAGC  
CAGCAGCGAGTGACCGCCAGCTCGAAGAAGTTGTCATGCAGGCCGACGCGCTCGACTTT  
CAGCACTTCTGCCAGATGCCGGCAAGTTGGCTTTGCAGTGGCCGTCGCCGGGGCCACGT  
ANTCCGCTGTGTTGCCTGGGCGGGGGTCTTGGCCGCAGGCCAGGGCCTTGCGGGTCCGA  
GTTTTGCCCGTTTGGGGGGGTCAAGGGGGCCAACCCGGGGGGTAGTAAGTACCCAANAAG  
GGTCCGGGTTTGCAATATTAAGTCCCGGGCAAGGCCCTGGGCCCTTTGAANTTTTGGGGCC  
GCCGAAACCCCTGCCCCAANGCCGCCGCCTTTTCTTGGGGGTGTTGTTCCGAAGGGTTC  
NGGGCGCCCCCNNGCNAANCCGTTTNGGGANTCCGGGTNGGGG

Sequence 1572

AGCTCCACCGCGGTGGCGGCGGACTGCACCACGGATGGGTGGGCGTTGAGCGCCGTTTCC  
ACTTCCAGCGGATACACATTGAAGCCGGAGCGGATGATCAGTTCTTGGTGCGACCCACG  
ATGAACAACGCGCCGTCGGCTCCTGGCGCGCCATGTCGCCCGTATTGAGCCAGCCGCGG  
TTGCGCATGGTGGCCGCCGTCATGGCCGGTTCGCGGTAGTAGCCGGCCATGATGTTTGGT  
CCGCGTATCCATAATTCTCCGGCTCGCCAGGCGCGACATCCAGGCCGGCCACGTCCACC  
ACGCGCACTTCCACGCCCCGGGATCGGCATGCCACCGAATCGTCGCGGCGCGGCGCATCC  
AGGCGCGTCTGGCTGATGGTGGGAGCACTTTCGNCATGCCGTAGCCATTGTGCAGCGCG  
GTGCCCAGCAGCTTTTCCACGTNGCGCTTGAGCGACGGCGCCAGCGGCGAGCCGCCCGCA  
TACGCAAAGCGCAGCCCGTGTGGGTA

Sequence 1573

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGGTGGCGCAATCTTGG

Table 2

CTCACTACAACCTCCACCTCCCAGGTTCAAGCGATTCTCCTGCCTCAGCTGCCTGAGTAG  
CTGAGATTACAGGCGCCCGCCACTACGCCAGCAAATTTTTGTATTTTAGTAGAAACG  
GGGTTTCACCATGTTGGCTAGGCTGGTCTTGAACCCCTGAACCTCGTGGTTGCCACATT  
GGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGACATTGCACCTGGCCGGTATTTCTGCT  
TTTTAAATTTATTTATGAATTTGGTTGTCTCATTCCCATGCAAGCTTTTCTACTTTTAC  
TTGGGAAAATTATTTAACTTCTGTGTAACCTGAACCTATTCATATATAAAATGGGGCACTA  
ATAATACCCACTTCAGAGTGTTGAGTATTATATGAGGTAATAACATGTAACGGACTTAGT  
TAATGGTAAGCGCTATATATGTGGTAGCTATGGTGATTATGATTATCTACAAATAATATT  
GTTCTATAAGTGTTTCTTAGTCTTTTTTGAAAGAAGGGCTTTTCTATTATTGGAAT  
TAAAAGTGGAACCG

Sequence 1574

AGGTACGCGGGGACCTCACCTGCTGTGCTCTTGCTTGCACAGTGTCTGGAGCTGGACCT  
GGCTCTGGGTTTCCAGGAAGCAGTTTGAATAAGGCAGCAAGCTGCTTCTCTGCTGCCT  
GAAATACCAGATTCCCAATGGCGAAGATTGAGAAAAACGCTCCACAGATGAAAAAAGC  
CAGAAGTGTTAACATCATGGAAGTAGATGGAGTCCCTACGTTGATATTATCAAAAGAAT  
GGTGGGAAAAAGTCTGTAATTTCCAAGCCAAGCCTGATGATCTTATTCTGGCAACTTACC  
CAAAGTCAGGTACCTGCCCCG

Sequence 1575

CTGGAGCTGGACCTGGCTCTGGGTTTCCAGGAAGCAGTTTGAATAAGGCAGCAAGCTGC  
TTCCTCTGCTGCCTGAAATACCAGATTCCCAATGGCGAAGATTGAGAAAAACGCTCCAC  
GATGGAAAAAAGCCACTAACTGTNTAACATCATGGAAGTNGATGGAGTNCCTACGTTGA  
TATTATCAAAAGAATGGTGGGAAAAAGTCTGTNNTTCCANGCCAAGCCTGATGATCTTA  
TTCTGGCAACTTACCCAAAGTNAGGTACCTGCCCCG

Sequence 1576

ATGATATACTTCTGGTGAAATTAATATTAAGATTAAATAAGATTTAGAGTGGTTTCTACT  
TGTGGGTCATGTTTCTGTTTATGATGCAAACTGTAAAGGATGAAGATAAACTCTAGTTT  
GAGATGGGAGATTATGCTACTATTTTTGCCTGAATCCCTTGAAGAACCTCTTCTTCATC  
TTTTGGTGATAAAGAGAGTATCCAACCTGAAGGGAACCTCTAGTGTCTTTTGATACTTTA  
TTTACTCTTGTGGATTTGAATAGGCAAACGTGGAGACTTTTTGTGTTATTACAACAGCG  
TAAACTTATGATATGAAACAAAACATCAATATTCATATTATTAATTAATCCAGTAGAAC  
AAAATTTGATTTAGGTCAAATTTGATTCACTTTATAATTTAAATCATTATAANAATTT  
ACCTTTAAAA

Sequence 1577

GTGGAACAGCATTCATCCTCAACATTTTTACGAAGACAAAATGAAGACTGGAGTAGAAGA  
CTGATCAGTGCAGGTGTAGCATAAAAGTGTAATCCTGGAAGATGTGGTGTGAGAAGGTAG  
CACAAGTGAAGCAGAGATACAGGAGATAGGGAAGGGAAGCTGGAAGCAGAGGTCACTGGA  
GGGAGAGGGAGATGGACACATTCAGGGCTACAAAGCAAGTTCTATGTGATTTGCTCACCT  
CTCAATTGTGGGACCCCTCAAAATGTGTACCT

Sequence 1578

ACGCCGCTGCGCAACCTGTTCTGAACACGGGCCACGGCACCCCTGGGCTGGACCATGTCC  
TGCGGTTTCGGCGCAATTGCTGGCCGACCTGATGTCGTGAAACAGCCGGCGATTCTGGCC  
GACGACCTGTCCGTACGCCGCTACAGCGGCGCGCAGCGCGGCGGCAAACTGCAACACGCG  
GTGGCCTGAGATGGCGGCCAGCATGCCTGCAAAGGAACGTAGCGGCCCATCCTGACGGT  
AGACCTGGACGCCGTGCGCGCCAACTACCGCTTGCTGCGCGACAAGGCGCACCCGGCCGC  
CTGCT

Sequence 1579

GCGCCAAGCTGCAGTCCATCATCGACGTGGTCAACAAGCCTGGGCGCGTCGCCGACGAC  
ATCATGGCAATTTTGAAGCCCTCGACCAGGCTGGAGCCATCGAAGGCGAACTGGTGTA  
ATTTGATGCTTAATATCAACGACAGCAGCAGCGCCCTGCCCTCGGCGCTCGATGACAAGA

Table 2

CCCCCGCCGCGGCCACGCCGCGCCGATCCCCGCTACGCGGCCAAGGCCACCGA

Sequence 1580

CCTAAACTAGATAATTTGAGAACAGGGAAAAAAGATTCCATTTGATTNCTGAAGGTTAC  
CCCCATACCTATTATAACAGAATAAAATAAAATAATTCGAACTGCACAACCTCTAACTT  
ATCAAATCCTATATATGCCTCATTTTCTCAAATGACTCCTAATTTGTGNAAGAAAAAGG  
CAAAAAGAGAAAGGACAGAAATGTCAAGGTGGGCTAAAGCTATGAATACCCCTTTTATG  
TAAACTAAGAAAAAATAGATACACACGCATTTTTTAAAAGGGAACCTTTTGAAACCTTG  
AGCCGCAAAGAGGAAAAATTCCTGGCTAAATTGCACCACTCAAAGACAACCTAGACTTACG  
GTCATAAATTTCTTCTCCAACCCATTTCTTTCAAGGATTCTTACAGATCCATAGCATTTT  
GCAAGCTGACATAGGACCCTTTCAAACA

Sequence 1581

CCGGGCAGGTACCTGACTTTGGGTAAGTTGCCAGAATAAGATCATCAGGCTTGGCTTGA  
AATTACATACTTTTTCCCACCATTCTTTTGATAATATCAACGTAGGGACTCCATCTACTT  
CCATGATGTTAAACAGTTCTGGCTTTTTTTCATCGTGGGAGCGTCTTCTCAATCTTCG  
CCATTGGGAATCTGGTATCTCAGGCAGCAGAGGAAGCAGCTTGCTGCCTTTAGTCAAAC  
GCTTCTGGAACCCAGAGCCGGGTCCAGCTCCAGGACACTGTGCAAGCAAGAGCACAGC  
AGGTCCCCGCGTACCTCGGC

Sequence 1582

CCCGCGTCCGGATGGATAAAGAAAAAGGAAGAGTTGGGGTTAGTTGAGTCAGAGTACAGTC  
ATCTTTTGTGATGTCCTTAGTCTGTTGCTTAAGATTTTCATTTGTGGTTTGCAACAACC  
TTTTAAAAAGTCAATTTTTGATTAATTTAGTCTTTTGAAGCTTCTGCATACCAATAAAA  
GAATATGTGCCACTGTTTTTGAAGGTTTTGATCCCCCTATTTAATNTGTNTTGAAGATA  
AAAAATNTTATCCAAATTAACCTTNTCCATTGCANCCATCTGAATTTCTAAGTTTTCTTT  
AATGANTTTAACCCATTTTTTTAAAAATGCACACACCTGGGCCTATAATTTGTACACATA  
AAATTAGCTGAAGTCCAGANGTGTGGATTCCAGACTCTTTGAGTTGAAATGATCCCAT  
TATTAATAAAGGTACCTGATCAGGGCAATCAGGCAGGAAAAAAAAA

Sequence 1583

GGAGTCGACCCCGCTCCGGGCAAATTAAGTGAAGCAGTTATGGTTCATAGTAGCAATTGT  
ATATGTTACCTAGGAGATGGTGTCAATGGCCGGGGCCTCATCGCCACGTAAGGGTGTCT  
TGCCAGGTGACTTGCAAGGGTGACTGCCAGGTTGAAGCCAAGGCATTCACTGAACGGAGG  
CAGAAGCAGAAACAGTCCCAGGCAATTCCTGGAAACTGGCCCATTTCTTACTGCGGGACA  
TAGCACCTTACTGTTGGGTCCAAAACCCCATGTGTCTGCCCCAAAAGGCAGCCAGCAC  
AGATGTGTTTCAGGGCCAGAGACACCATTTGCCTACTGAATGACTTGAGCAATTTGGTGCA  
TCTACCGAGCCTTACCTTCTCTGTTAAATGGAACATCTCCTCCCTCCTTTGCAAGATT  
GTCATTAGGATTTGTGAGGTATTGGCAATAACGGGCCCTCCCATCCTTCCCATTTGCTGTT  
GTTATTACTGTATTCATAGCTTTGTGTGTTTCATAGGTACCCTCTAGGGTCTCTACGTA  
CAACATACAACAGCTTCGCAATAGCCAGTGTTGGAAGCTCCAANAACGAAGGTCCTGTGG  
GCTATGTGGAGAGTAAGCAGCANAGCAGGACTGCCACTCAAACCTAGTTTCACCC

Sequence 1584

AATAAGATTGATGGCACCTAGTTAATTTCAATTTACTCAATACTTTTCAGAAATTGAAG  
AAGCTCTTTTTACCANCTACTAAACAAAAGCAATTTATTCAACTAGGTTTTCTTTGCAT  
GAGTTGNTCTGTATGTAACAAGAAAGCAAGAAAATAAATATTTTTAAATGTCACACTTCC  
CTGCAAAAATAATCACAATAATAATAATAATAATGAATAAGAGTTTATAGGCTAGGT  
ATAGTGGCTCACACCTGTGGATCCTAGCATTTTGAGAGGCTAAGGCGGGTGGATCACTTG  
AGGTCAGGAGCTCAAGACCAGCCTGGCCAACATGGTGAAACCCCATCTGTACAAATACAA  
AATATTACTCTAAAAAAGAGTGCNNCCGTTANACTANTCTANANAAAAANCNTCCC  
NNACNNNNCCNGAACCTGAAANATAAANGAATGCCNTGNAGGGGNAACTGGNNAATN  
GCCCCTTATANNNGGNTCCAAATAANNNGCAATNGCNTCACNANTTTCCCAAATAAACANN  
TTTTTNCCTGCNTNCTANNGGGGGTTTGTCCAAACCANATAAANTGTTCNTACCAAGGG

Table 2

GGGGATCCCNGGGNTNCCNNACTCCAAAAAATTTCTTTTCC

Sequence 1585

CCCGCGTCCGGAAATTTTGAAGAATATTAGAAAATATCTGAACTGAATGAAAAATAAAC  
ACAACATATCAAAATTAGTGAAATAGAAATAAGTAGTACTTAGTGGAAGTTTATAATT  
AATTACTTACGTTAGAATTAATTACTTTTATTCGGAAGAATAAAGGTCTCAAGTCAAC  
ACTTTAAGCTTTTGCTTTAAGAAATCTAAAAA

Sequence 1586

CCCGCGTCCGCTTTCTTATTTGGAAAGAAAACAACACTCACCACGGCATTACAATGCTG  
GGGACCTTATGAATGGGAATGGAGAGGCTGCACTAATGTAAGTGGGGTCAACATCCCTGC  
TGGAGGGCAGATGCAAGTGGGGTCAACATCCCTGCTGGAGGGCANATGCAATTTTGGCAA  
ACTAATGACTTTTGGGAAGCCATTTCTAGACTGCATTTTCTCTTTTNTTGAATGCT  
TTTCTCAAGGGGAAAAAGAAAGCAGGAGGTGTAATGGTATCTTGGCCGTTCTAAGAGCC  
CGTCTGGGAGACTCTCTGCTGACCACAGCACTGTCTCTCCCAGGGCCAGTCCCACAGT  
GTCACTGAGTCCAGANTCGGGACTCCAACAAGCCCTCCGCATTCCAGCATGACTGTGGTA  
AAAACAAAAAAATCTATTTTATTCTAGTCCATCACATTTTCTATTTGCTAAAGAAAT  
CTCGATCACTCCATAAATGATCGGTAAAAATTAATAATATAGGCTGGGTACAGCAGCTTA  
TGCCCTGTAATCCCAATGCTTTGGGACACTGAGGCTGGAAGATCACTTGAGGCCAGGAGT  
TCCGAGACCAGCCTGGGCAACATAGAAAGACCCCATCTNTTCCAAAAATAAAAAATAATT  
AGCTGGGGGGAGCCTAAGTNCCAGCTACTTTGGGAAAGCTGAGCCTGGANGAATGCTTTG  
ACCTTGGGAGTGANAGGCTACANTGAGCTTTGATTGGCCCCNCTTGCACTTNCACCTTTG  
GGCCAACAANANTGAAACCCCTGTCCGTAAAAATTCAANTCNAATCAATANTTTTAA  
AAAAA

Sequence 1587

GTCCGTGCACCCCAAATGGGATCTGTGGGACATGAGATGCCGGCTGCATGTGAGCATCTT  
GGTAACCAAATAATAGGAAAGAATGTAGGAGCAGGCAATCCTGGGGCAAAGCTGACGCC  
AACGTACCTATTCTCTTAGAATTGAGACTCTGATCTGTCTTTCCCAAGGCCAGATCTAC  
AGAGAACTTTCTGTCTTGGGCAGAATAGCTGGCTGAGACATCATAGAGAGAGACTGAGG  
AAATATCCAGGAGCCTGTTGACACAGAGGCCCTGATACTAAAGAGAAGTCCAGCTGG  
GCGTGGTGGCTCATGCCTGTAATCCAGCACTTTGGGAGGCTGAGGCGGGCGGATCACTT  
GAGGTCAGGAGTTNGAGACCAGCCNGGCCAACATGGCGAAACCCCTGTCTNTACTAAAAA

Sequence 1588

TAGGGAGTCGACCCCGCGCNCCGATCCAATGGTCCTTTTCCTTCCAAATGAATGTAGAAA  
ATTGCTTATTATCCTGATATTTGCACTCATCCCATGCCACTTTTNCACATATNAA  
TTTATTTCACTGCCTGATCTTTGGATATGAAATTATGAGTCCACAAAGTCAATTTTAT  
AGTGCCAAATCAACAGCATGGTGATATCTTTTCTTTTTTTTCCCCCACAAGGCTGT  
TGNTCAGTGTGANATGACATCATTTCTTATTTCTGCCATGCTGTGGCTTTTTTGTTCT  
GCTTTTAACTACNCCTGTAGTACAGTTAATATGTTTTTATTGGTATTGATTTNTNAA  
NNNATTANTGNTCTCTATTTGGGACCCAAGTCATAAGAACCAATTNGAGGACATAATAAA  
AACACTTAATGCTTGTAGTCTGTANAGATCTTCACCATTTACAGCNCACACATTATTTT  
CATAATAAATTGCCACTGGTGGGACATGGGACTGACTTATTTGAATAGAGTTTGAAATAC  
CACCTTTGTATGAAGCCANACAATATTTGATTTATTTTATCTAANAAATCTATGCNTGGG  
GTATTAAGTTAAAAATAGTGGGGTTAAAAACAATTTAATAAGCCTTANNAATGGTA  
CCCTAACTCTTTCTNGGGGTTAAATGGGAATAAGGGAAATGNTTGGGGAAATGGTGG  
AAAAAACTTTTTNGNAA

Sequence 1589

NAGAGAGCCTTGTCATCTCTCTGGGGCTTGAGGCAGGGCTGGGGCAAAGTGGCTATTGGA  
CAGGCTGGCATGAGACAATGTCTTCTCTCAGCTCTACTTTACTCACTTCTGTGGAGAC  
CTGCCTGCGTTCATTCTCATCCACATAGAACCGGAATCTTCTGGCTCAAGTCACTAA



Table 2

ACAGACACATCAGGGAGGCAACAGCTTGAAATTGAAAGCAGAAAAAGTGTGCGTGATACA  
CAAACATGTACAAGCATGAATGTGTGTGCGCACATACGCATGCACACCTGCACATGCA  
CACACCTGCACGTGCATGCATGCACACTTGGCCACCAGTTCAGGACTGCAAGGACAGGCA  
TCTCTGCCAGGGGGCTAGCAAACAGCAAACCCACAGCCTAGAATCCGCTTTTGCTTTCT  
TGACTTTTCTGCCCTGGTCTGAAAGAACCAATGACAGAACTGGCTCAGGGACCGAGCAT  
GGGGTGAAGCAGAAGATCTGAGTAACCCATATCCTGGCCACCAGCCCCAGAATTATTGA  
GCATTIGATTGTTTAAAAA

Sequence 1590

CCCGCGTCCGGAAAACTGATAGAAAAATAGATCTTGCAACCCTGAAACCAAAGTAAATG  
AAAAAGTTTCGAGATGAAGTCCATCACAAGGGAGAGAGTTGCCTCCCCAGGACGGCGTCT  
CTCTAGAGGGACTGAGTTCAAACCCAGTGCANAAAGGTTGTTAAGGAAAATCAAAGAA  
GGTTCTGGAATTTGGGTTGCATATTAATACCTANGGAGCTTTAAAGGGGAAAGACAA  
AACTGAACCCAGACACTACCACAGGCAATTTGATAAGGATTTTACTCCATAACTTTTAA  
ACATTTTAGATAGAAAATTTNAGAACACACAATTTACAGAGATCACCATGATGAACCCCT  
CATGTACCTCATCNAACATCAGTAACTCACAACACGGATCAANCTTGTGTCAACCTCTG  
CTTCCACCCACTTCCCTCTCCACCCCAAAATAATAATTTTTTTTT

Sequence 1591

GGAGTCGACCCCGCGTCCGATTTTAGGCAGCTTTCTCTTTTCTGATTGGTTTCAGAAAG  
ATAAGATGCAGTTACAAGCAAATGGAGAAATTAAGTACAAATGTCTGGTCCGAGAAGCTT  
AGCAAACGTAGCAGTATTAGTTCTAACATCCATTTCTGTCAATTTATTGAAAATATCTT  
CAAACTGATACATCTTTAGAAAGTAATACAAATTAAGAGTTTATTGAAATAAAGGAGA  
TAGTTTTATGACACCAAGATTATCTCCACACTTGTCCCTCATCTTAGATGGAACAAAT  
GCAGAGAGTGTAAGCTTAAATAACTATATGCTCTACAATGTAGATAATCAAATGAAAA  
TGCTGTGGTCTCAAAGCCAGAGGAATGTGGACCACTTTGGTGGCCAAATTTAACCAGCTG  
AGGTCTTTCTTGAGTACCATCTGAGTCTTCTTTTAAAAAAAAAAAAAAAAAANGGG  
GNNGNCCNTTAANNNTTTNAAAAAAAAAACTTCCAANNNTTCCCTGGACCTGNAANN  
NAAANNNAAGNCATTNGNNGNNGTAANTNTTTNTTGGCNCCTTTTAGGGNTCNAAAAA  
GCNAANCCCCCCCCAAATCCCCAAAAAACCTT

Sequence 1592

GGAGTCNACCCACGCGTCCGCTAGGTGGAGACCCCGTCCCGCTAAACACTGAGCCCGTG  
CAGCGTCCAGGCCTGACACCCCTCCGGCGACTCGCCGCCTCTACACCTCCGCGCCACTGT  
CCCCGGCCCCGACCGACCCAGCCCTTAG

Sequence 1593

TTTTCTAAAGATTTTATTTGAATATGTTTCCTCTCATCTTCTTTGAGTCATGCTGGATA  
CTCCCTCTGCTATATCCATTTATTCATTTAATGCCCATAGAGGACCATGCCAACCACAT  
CCATCCANACTTCCAGGCCTAAGGTTCTGGTTGAAATGACACAGAAACCATGGCAATGGC  
TATGGACAGTCTGTCTTANAAGGTGACCTTCACACACATTCCCACAAAGGCTGCCTGT  
GCTTGTTTTAAATTCAGGGTTACCAATATCCTTCCATTTAGGGACTTCAACCACAAGAG  
TTCTTCTATGTTATCAGGAATTGGAGGTACACCAAAATAATATCAAATATGCAAGGAACT  
AAAGAGATGCTAATCTCATTCCCTGCATCTCCTGGTTCTCTGGCTGGGTAAAACACCCAGC  
ATATTGTTACCTTTGNGATTAAAAATCCACAGCATTTAAAGGATTATACCTATTGTCT  
TCGTAAACTAGGCTGACTGAGGTTTAAAAAAAACATAAAGGGCAAGTGTTTATCTTTA  
AATTTCAAACATTGGGCAAGGGAATNAAAANGTTCTTTCTACCCATGGAATNAACATT  
CCCAGACTGGGNATTAATTTATCCAATGTTTCTTTTNCNCCCANCCNTTTNTTTTNGG  
GCAAAAAAGGGGGGGGNGGANAAGNGAAACAAAANGGGGNTTGGGAACCCCTNTTTTTT  
TTTTTTGGNAAAAANCNTTNTTNAATGNAATTNGAGCTNTTTTTTATTAAATTTTNGA  
AGGGTNNGGGGGNTTGTGNCNAACNTANAAANGGCNNNTTGTNTGNGGCCCANAGTGG  
GGGGTTNAACANACAAAAA

Sequence 1594

Table 2

GTGACTTGTGGGATTTCCTCCTCCTGGGTTACACCTAGTTTTCTTGTGATAAAGT  
 TATTTTGTATGTAGCTATGAGCACAGTTGATGCTGGAAACACACATGTAGTGTGGATTG  
 TCATTAAGAATGTGGAGAACTGGCTAAAGAAACCACTTGACAGTTTTGAGATGAGCACT  
 GCCTGCCTCAGCATCTGTGGTAACGGCTTCACTTGGGTGCAGAGCTTGGCAGAGGTTTGA  
 GTGACTCTATCTCGATGATCGTCTGTCAGAGGACAAGGTTAAGTGTCACCACCGAGGACC  
 CCGTTGAGCCTCTGGGCTGGAAGTAACTTCCCCTGGGCCGGTGAGGCAGCCTCTGGGGGT  
 CTTTCCTGACAAGACCCCTTCACTGANCTGCAGTTTGGCCACCTCTGCCCTCGCCTCCCTG  
 ACTGCAGGGCCTNGAGGTCTCACCACCTCCAGCCTGAGCGCCCAGTGCCCGAGGGGCAATT  
 TCCCGCCTTCCCNNGGGGCTCAGGATGCTGGCTCCTGGGGCAGTGCCCGCAACTGGGCCC  
 CTCCTTCAGGGCTGGCCACNGCCTCTGCTGTGTCATACCANCTGCTTTCNNGNACTGCAA  
 CCCCACTGGGCCCGCGCTAACTAGTTANAAAAAAAACCTTCCACACCTNCCCCTG

Sequence 1595

GGAGTCGACCCCGCGTCCGAGCAAGCCGAGATCTCACCCTGCACTCCAGCCTGGGCAAC  
 ACAGCAAGACTCCATCTCAAAAAATAAATAAATGAATAAGATTCATATGGCACCTAGTTA  
 ATTTCACTTACTCAATACTTTTCAGAAATTGAAGAAGCTCTTTTCACCAGCTACTAAAC  
 AAAAGCAATTTATTCAACTAGGTTTTCTTTCATGAGTTGTTCTGTATGTAACAAGAAAG  
 CAAGAAAATAAATATTTTTAAATGTCACACTTCCCTGCAAAAAATAATCACAATAATAATA  
 ATAATAATAATGAATAAGAGTTTATAGGCTAGGTATAGTGGCTCACACCTGTAATCCTAG  
 CATTTTGAGAGGCTAAGGCGGGTGGATCACTTGAGGTCAGGAGCTCAAGACCAGCCTGGC  
 CAACATGGTGAAACCCCATCTGTACAAATACAAAATATTACTCTAA

Sequence 1596

GGAGTCGCCCCGCGTGACGNNGNNTCGCNGGNCATGCGACTCATGGCACGGAGCAAAACA  
 TGGTNCAGCCGCTAAAAACACTGATGGCCGATGATNCGGATTACAGTTNCNATATTCTGG  
 AANCCCGCTACGCCATTGAAGCCAGCACCGCATGGCATGCGGCAATGCGCGCCACACCTG  
 GCGACAAAGAAAAGATTCACTTTGCTTTGAAGCAACGCTAAGTGAANACCCGGATATCG  
 CCTCACAAGCGGACGTTTCGTTTTCATCTGGCGATTGCCGAAGCCTCACATAACATCGTGC  
 TGCTGCAAAACCATGCNCGGTTTCTTCGATGTCTGCAATCCTCAGTGAAGCATANCCGTC  
 AGCGGATGTATCTGGTGCCACCGGTTTTTCACAACTGACCGAACAACATCAGGCTGTCA  
 TTGACGCCATTTTTGCGCGTGATGCTGACGGGGCGCGTAAAGCAATGATGGCGCACCTTA  
 GTTTTGTTCACACCA

Sequence 1597

CCGGGCAGGTACCTGACTTTGGGTAAGTTGCCAGAATAAGATCATCAGGCTTGGCTTGA  
 AATTACAGACTTTTTCCACCATTTCTTTGATAATATCAACGTAGGGACTCCATCTACTT  
 CCATGATGTTAAACAGTTCTGGCTTTTTTCCATCGTGGGAGCGTTTTTCTCAATCTTCG  
 CCATTGGGAATCTGGTATTTCAAGCAGCAGAGGAAGCAGCTTGTGCTTTAGTCAAAT  
 GCTTCCTGGAACCCAGAGCCAGGTCCAGCTCCAGGACACTGTGCAAGCAAGAGCACAGC  
 AGGTGAGGTCCCCGCGTACCT

Sequence 1598

TTGGAGCTCCCCGTNGTGGCGGCCGATGTAAGTCCATNCAATGCAAGGCTGCACACCATG  
 GGGTTAAAAAAGAAACCTTCCCATGTTGCTCGGAAAGACCCGAGGCATGCTAAGATGTG  
 CATGGGTCTCCTGAGCAGTTGTGGAACCTTGCTGCCATGTGTCTATAAAGGGCAGGCAACA  
 TATCTTCAAAAACATTTATTTAAGTCTCTGGAAGAACAACAATAATGATGTTTGCCGATAG  
 GGAAAGGTAAATGGGGACAGGTGTGAGGAGGCTTCCATCCTTTCTCATGCCACTTGGACC  
 ACGTGAATGTGGAAGGTGGCCAGGGAGACCCTCTCTGCAAGTCCAGGAATAGGGCG

Sequence 1599

CCNGCTCCCCGCGGNGGTTTGATTACTCATTNCTCTCANTTNCTAATGCCTGATCCTAAC  
 TACAAGANTGTGTTTGAAGAACTCCCCTGTATAAGAGACATATTTCAAAGAGCTCAAA  
 ATAGTAAACACTAACTCTTCAAACCACTATCTACAGCTGGAAAATGCTTTCTCCCTTGT  
 AAGAAAAAAGGAAGGCAGGCCTGGTGCGGTGGCTCATGCCTGTAATCCCAGCACTTTA

Table 2

GGAGGCCGAGGTGGGCAGATGACCTGAGGTGAGGATTCGAGACCAGCCTGGCCAACATG  
GAGAAACCCTGTCCCTACCGAAAAATACCGANAAAAAAAAAAAAAGAGAAAAAAAGT

Sequence 1600

ACNCCCCCCCCNATCNCNGGGGAAAAAGNTCCCCGCCCCACCGCGGGGNGGGNTTTGCCG  
GNGGGNACNANTTTCCCCCGGGGNTTTTNAAAAAACCCCCGNNCACAAACCCTCCCCGG  
GGGGGTTCCGTNTAGAANGNGGNAAAAANGGGCCCCGGCCANGCNGGCCCNCCNGGG  
GGGAANGGGGGGGGAAGGCCCGNNNNNCNANAGGGGGCCNCCCNCCNCCNCCNGGGGGANA  
ACCGGAAACCCCCGGGGAGNCCCCCNGGGGCCACCCCCGGGGGGGGCCACCCAAGGGGG  
GANNGGGGCCNCGGGGGNAGACCNAACCCAAANCNGNAAAGNGGNGGGAAAA

Sequence 1601

GCCATGCTCTCCTCTGCCAGTCTCCTCCACCACTCTCTAACCTGAGAGCCTGTGGAA  
CCTGCCCGTCTCCCTCCTCCATCAGACACACCTGCCTAGGAAACAGGAAAGGACCTCGG  
AAGTCTTCTAAGGAGAGTCATGGCGTATTACCAGGAGCCTTCAGTNGGAGACCCNATC  
ATCAAGTTCAAAAGACCAGGANCTTTACCACCTTTGCGGGGGTCACTTGCCCTGANCATG  
GGGCGGACCGTTTAAAGGAATGANNACATTCCTTGACGACAGNATTNTCCATAGGGCCA  
AAAAGCTGCTCCAGNNAAAAACNCCTCTCCAATGTTGNTNTGGAAAGNCGCCACANGGA  
TTTACCAGGGGGNCCCNCCCTNANTTNANTTCNGGNNNNAAAAAANNCCNNTTTTNT  
CTNNCCNNAAAAANGGGGGGGNGNCCNNTTTTNTTNTTTTTTTTNGGGGNNNNCCAGN  
GNNNANTTTTTTTTTTNAAAAAAAAAAAAAAAAAAANTTATATNTGGGGNTTNAAAAAAA  
AAAAAGANGNNCCCCCCCCCGGGNGNNNAANNAATATTTTTTANANTANTTTTTTT  
TTACCCCCCCCCCCCCCGGGGGGGGGGGGNCNCCCCCNCTTTTTTTTTTTTTTT  
TTTTTAGNNGNNNGAAAAANAANCCCCCCCCCNCCNAAAAA

Sequence 1602

CTCCACCGTTGTGGCGGCCGGTTTGCGAGGGTNGCANGTACGGGCGTGCGCGCCGCTGG  
CGGGGCCGACGTCTGGCAAGCCGACAGCAGGCTGGCGGCGGCAAGGACGATCATCGCGTG  
TCTCATGCCTGCCAGCCTACCATGGTTTAACTGAACAGGCGTGCCAGCTCCACGCCGGGG  
TCGGGGGCGCGCATGAACGCTTCGCCCACCAGGAAGCTGTGGATGTGCGCATCGCGCATG  
CGTTGCACAT

Sequence 1603

AGGTACTTGGTCTTTGAACTCTCGTGTCGAAAGAGTTGAACACAACCTAACTTTAATGTG  
AAAAGGTCTCAAGTAGTTAATCAGAAATGAGAGGCGCACATAGCATTTTATACTGTTTT  
GATTTGCTGACACAACATCATTCTGTGCTCTCTAGTGAGCAAGAGTAATCCTCAATAGCA  
TTAAGACGAAAGGCTGAACACAAAACCGCAGGCAAGTCAAGTAGTGATTTTATTCTTTTT  
GTCATTTTTCTTTCAAGTGGAAGATCCCTAACACTCTCTGCTCCTGACAATGTTTATAAA  
CAGAACTNTGAGAAGCATCTGAATGTAA

Sequence 1604

CACGGNTTTCGCCACGCCGCCGNTGATGGCATNCTGCATGAAGTTCAGGTAACCGGTGA  
CGGACGGCTCAGACGTGATCTGCATTTCCGGCACCACCAGGCCCGCGTCCGACGCGG  
AATTGGGCGGCACGTAGGAGGGACGGAAGTAGTTGAAGACGGACGGCGCGTTCATGGGGT  
TCTGGCCGAGTCCCGACAGCGGATCGCTGAGGTAATANGATGCGGTACTGCAAAGCAGCA  
TCCTTGGCGTTAAACGCGCGCATCCAGTTGC

Sequence 1605

GGCATCCTGCATGAAGTTCAGGTAACCGGTGACGGACGGCTCANACGTGATCTGCATTT  
CGGCGCCACCAGNCCCGCCGTCGCCAGCGCGGAATTGGGCGGCACGTAGGAGGGACGGAA  
GTAGTTGAAGACGGACGGCGCGTTCATGGGGTCTGGCCGAGTCCCGACAGCGGATCGC  
TGAGGTAATAAATGCGGTACTGCAAAAGCAGCATCCTTGGCGTTAAACGCGCGCATCCAG  
TTGCCCAAACGCACCAGCGGTTGNTGCAAGTTTGCCCGTGNCAGGGTGCTGCCGGCTG  
CNCAAGCGCCTCGGGGNTCCAACAGCACGGNACGGATCACNGN

Sequence 1606

Table 2

NGGTACTTTTTTTNTTCTTTTTTTTTTTTTNGCTGACCTGNAGTTNGATTTNCNNTGTNT  
ANACTTAACANTCTGAATTTAAACACGAGGCATATACACAAAATCATCTGGAAGTGAATTT  
TTTTACACTAAACACTTCTTTCTGATCCTACTTTCCAGGAGGCTCCTTCCTCCAAACAT  
ACCTCCAGATGAAAATCACTTAATTAACCAAGAAAGACTCAACCGCCCTTAAGTCTTTT  
CTAAACAGTCACACATACTGGATTTACTTATTTTGAGACATGACAAACCAGTTGCAAACC  
ACAAATTCATTCTCATGGGCCCTCCACACGGTCTCTTGTTCCTTCTGAAGAGGGTCTTGC  
TGAGGACCATTGTCCCCCTT

Sequence 1607

ACCNNGGCCNTGCTTNGATGCAAGACTCCTCTCCCTAACGATTTTGAAGAGATATCCATCC  
AGTTCTCCTCTAAAACCTAATTGCTTACCCAGATGAAAAGATATTTGAGAATAATGAACC  
CATGAGTTGGGTGGGAAGTTTAGGATACCTTTTTATTCTGATGCTCATGANAGCACCAT  
TANAACTACAGCATTGTGGATATTGGTTCTATTTAATATTAATAAAATTAANAGCACAAAG  
GCATTTTAA

Sequence 1608

CCGGGCAGGTACGCGGGATTTATGTCAATGATAACAATTTACCTATTTTCAATTTCTGT  
TTGTTTTATGAAAAAGCAAATAGAAGCAATCAGGGCACTGCAAGTTGTGACTACTCCAAG  
ATGTGAATCATGGATCATGCAAATTACAATCATGTTTTAACCTGACCTCCAAAGGGAGAA  
TAAAGTAAAAATTATCCCATGTGAGGATTATTCACCAGTTTATATGTCATTAGTTACCAG  
TNTTCTTTATGAATAATGTTTAGCAATATTATAAAAGTATGTCTAATAGNTTATCAGGT  
TTTTGGCTTGTTACTTTTTGGTAGNAACTTATAA

Sequence 1609

TCCCACAATTGAGAGGTGAGCAAATCACATAGAACTTGCTTTGTAGCCCTGAATGTGCC  
ATCTCCCTCTCCCTCCAGTGACCTCTGCTTCCAGCTTCCCTTCCCTATCTCCTGTATCTC  
TGCTTCACTTGTGCTACCTTCTCACACCACATCTTCCAGGATTACACTTTTATGCTACAC  
CTGCACTGATCAGTCTTCTACTCCAGTCTTCATTTTGTCTTCGTAATAATGTTGAGGATG  
AATGCTGTTCCACTTTCCTTTCCTATAGCGAGATGGCCTCCCCGCGTACCT

Sequence 1610

AGGTACTGACTTATGCTGGGATGGTTCTCGAATTTTTATTAGAATCCCCCAGAGTGCTTT  
TAAACTCTTCATGTTCCAGGCCAAGCCTTTAAACCATTAACTAAGAATCTCTGGGTGGA  
GGGTGTGACCTAGGCTCAGCTTCTTTAATGTTTCTCAGTTGTGTCTGAAGTGAGTCAG  
GATGAGAACCACCTTGATGCATCTCCTAACTTTCTAACTTTACTGTGCATGAGAAGCAC  
CAGGAGATCTTGTTAGAATGCAGTTTCTGATTTAGGAAGCCTATGCTAACGTCAGAGATC  
TACATTTCCACCAGCTCTCAGGTGTAGTGACTCTCCTGCTCTGTGGACCACACTTTAAAT  
AGCCAGGCTTACCAATCCACTTAAAAATGGCCAAAACCAATTACTTTTGACCAAACCT  
AATACACTGTGCTGTCCAGTATGGTAGCTCCTAGCCACATTTGCCTATTTAAAAGCTCAG  
TTCCTCCATCCTACCAGCTGTTTTTCAG

Sequence 1611

CCGGGCAGGTACCTGACTTTGGGTAAGTTGCCAGAATAAGATCATCAGGCTTGGCTTGA  
AATTACATACTTTTTCCACCATTTCTTTTGATAATATCAACGTAGGGACTCCATCTACTT  
CCATGATGTTAAACAGTTCTGGCTTTTTTCCATCGTGGGAGCGTTTTTCTCAATCTTCG  
CCATTGGGAATCTGGTATCTCAGGCAGCAGAGGAAGCAGCTTGCTGCCTTTAGTCAAACCT  
GCTTCTTGGAACCCAGAGCCAGGTCCAGCTCCAGGACACTGTGCAAGCAAGAGCACAGC  
AGGTCCCCGCGTACCT

Sequence 1612

CGAGCGGCCGCCCGGGCAGGTACTCTCACCTGTGGGCATTTGTCAAATCAGTATTACTG  
CTGGGGGGGATGAGGGCTGAAAACCTCTATTTACCACATCTTCTGACATCATTTGCCACA  
GTGTGCTTTTTTTGTTCTGGTATTTCTTATACCCTTGAGTCTCTTCCCTATTTTAGTCA  
ACCCAGCAGTCTGTATTCATTCTCTTAATCAGGATTTGAGCTTTGCACCTGCTCCTTTT  
GGCTGGGGTTGAGTCTACTTCAGAGGCTAGGGATATAGAGGGTCCAAATACAATTTAAAT

Table 2

AAGAAAATGCTACNAATAAAAAGTGTGAGAAGAATAAGAATTCTAGAAAAAAGAAAA  
GAAAATGGAAAGAAAAGACTTTTAAATGTTAAGGCATCTGGCAGAGAGACCAAATGGGA  
ACAAAAACCAATTCTCTCTCTNACAAGTCCTTGACCCCTGGCCTAATGGCTGCTTNA  
ACCCACAA

Sequence 1613

GCCGGTGATCGACCCGTTCAACTGGGATGCGGGCAGCGTGGCGCGTCCCGTCATCAACTA  
CGCGCAGTGGGGCACGGCCAGCATTACCGAGCAAAGCGGCGTGTATGCGGGCACGCGCCT  
GCGCCTGGCCGATCCGCTGTCTGCTGGTGGTGGGCGGCGCGTGAGCTGGTACAAGGACGA  
TGCCGGCTACTCGGTGGCGCGCGAATCACTCCTTATGCGGGTGTCTGTATGACCTCGA  
CAAGCAGCATTCTGGTGTACGCCAGCTGGACCGAAATCTTCCAGCCGCAGGCTTCCACGGA  
CGCCAATGGACAGCCCTTGAAGCCGATCAGTGGCACCAACTATGAAGCGGGCGTGAAAGG  
CGAATACTTTGGCGGCGCCCTCAATGCCAGCGCAGCCGTGTTCCAGATCCGCCAGCAAAA  
CCGGGGCGTGACGANCTGGCCGGCCCGAATCCTTGCCCCGG

Sequence 1614

ACTTCCTGACTTGTGAGCGTGTCTCACTGCTGGCCCTCTTGAGCCTGCTGAGTCGGGA  
CTCAAAGCCAAGGAAGTTGAAGACTTAGAACTCTTCATGCCGGAAGAGGCTGCAGGCA

Sequence 1615

CCGGACGGTACCGGGCTCGGTTTGCCATTACCCAGAACATCATCAGCCAGCACCAGGGT  
TTGATCGAATGTGAGAGCCATCCCGGCCACACCCTTCTNGATCTTTCTGCCACTGGAA  
CAAGGAGCCCCATCGACATGAGCCGTAGTGAACCTGTCTGGATCGTCGATGACGACCGTT  
CTATCCGCTGGGTCTGGAGAAAGCCTTGCAACAGGAAGGCATGACCACCCAGAGCTTCG  
ACAGCGCCGACGGGGTGATGAGCCGCCTGGCTCGCCAGCAGCCCGACGTGATCATCTNCG  
ACATCCGCATGCCCGGCCAGTGGCCTGGA

Sequence 1616

AACTACTGTTTCTATAATGGGATATTTTATTACATGAGGTCTNTGNNGGCATAGTTATTT  
CATTANAAACACNCTTCATAAAATTGCATCCATGTATGGTAATCTAAAAAGCCAATCT  
AGATGACAGAAGCTTCTGACTATAAATTATAAGTAATCTTATCCATACATNCNCAGAANC  
TAGTGATTTATTAAGTNCTCTACTGTACTTCCAAACACATNTAAGTTTTCCAAAAGATT  
CAAAAACAATTCACTGGCAGCAAGCAAAAAGTCAGGGANAACTGCTGANACAGNGGTGC  
TGGTAAGGGCTCCTGGTAG

Sequence 1617

CCGGGCAGGTACTTGACTCTCCCTGCACTGCCTTGCTTTTGAAGGCATCTAAATCTCTC  
ACTTTTCCCATACACATTTACAGCTGGGTCTTCTGCTGGACTCAGCACAGGAGGAC  
CCTCTCTCANACTGGTTGGAACTTTGGGCACATTTGAAAACGTCAACACAATCTGTAA  
ACACATCAGTCATAATGATTCTTCTAGGAAGTNGACACACCCAGATGAACTCTNTTGT  
TATGACAGGATCAGTACCANGAGAATTTCTCTCCCGCGTACCTTGGACGCTTTTAGAAC  
TAN

Sequence 1618

GCCATGCTCTCCTCCTCTGCCAGTCTCCTCCACCACTCTCTAACCTGAGAGCCTGTGGAA  
CCTGCCCGTCTCCCTCCTCCATCAGACACACCTGCCTAGGAAACAGGAAAGGACCTCGG  
AAGTCTTCTAAGGAGAGTCATGGCGTATTACCAGGAGCCTTCAGTGGAGACCTCCATCAT  
CAAGTTCAAAGACCAGGACTTTACCACCTTGCGGGATCACTGCCTGAGCATGGGCCGG

Sequence 1619

ACTGCCATGCAATGCAAGGCTGCACACCATGGGGGTAAAAAAGAAACCTTCCCATGTTG  
CTCGGAAAGACCCGAGGCATGCTAAGATGTGCATGGGTCTCCTGAGCAGTTGTGGAACCT  
GCTGCCATGTGTCTATAAAGGGCAGGCAACATATCTTCAAAAACATTTATTTAAGTCTCT  
GGAAGAACACAATAATGATGTTTGCCGATAGGGAAAGGTAAATGGG

Sequence 1620

ACCTGACTTTGGGTAAAGTTGCCAGAATAAGATCATCAGGCTTGGCTTGGAATTACAGA

Table 2

CTTTTTCCACCATTCTTTTGATAATATCAACGTAGGGACTCCATCTACTTCCATGATGT  
TAAACAGTTCTGGCTTTTTTCCATCGTGGGAGCGTTTTCTCAATCTTCGCCATTGGGA  
ATCTGGTATTTAGGCAGCANAGGAAAGCAGCTTGCTGCCTTTAGTCAAAGTCTTCCTG  
GAAACCCCCCGCGTACCTGCCCCGGCGGGCCGCTCTAAACTAAGTGGATCCCC

Sequence 1621

CGAGGTACTCAAGAAACCCAGGCCAGAGTTACTGGAGCCCTTCCTCACAATTGGCCTTGG  
CTCCCTCTCCACTTGTGTGTTTTACATTGACTTGATCTTCAGTGGAGTAACTCTGAGCA  
GTGGCTGTAGCTCAGCAGGTAGAAAACTCTTAACCCTTGAAGAGGGGAATACAGTAGC  
ACCATTGAAAAAGAGGTTGTGTATAGAGTTTCATTCTTAAATTTGCTTTGCCAAGGAGA  
AAGCCTGTGAGAAGTGAAAGCAAGGTGGAAGTGGGGTCCAAAGAGAGGGAGTAACTAGA  
TGCCATATTAATTTGTATTTCTTGAGAATATGACTGCAGTTTATATATAACTTGGTTTA  
AACATTTTTGGNACCTCTTAAAGAAAATTTGG

Sequence 1622

CCGCGGTGGCGGCCGAGGTACTTTGGGAGGCTGAGGCAGGAAGATCCCCTGAGCCCAGGA  
GTTTCGAGAACAGCCTGGACAACATAAGGAGACCCCGTCTCTATAAAGTAATAATAAT  
AATAAAATAGTTGTTTGCCTTGACAGCCAGGGTGAGTAGAAAAGTATGGCTGAATATAAA  
GCAACAAATATTTTACTTTCTATATACTTCTTAAAGAAAGTTTATTCTTAGTAAA  
TAAATACTACCTTTACTTAAGTCCTAACTTCACATTGTCTGT

Sequence 1623

TACTACTATAGGGCNAATTGGAANTGCACCTCCACNGCGGNNGCNNNNGCAGNTCCGCGG  
GGANAATAGAGTGGCTGACTTGCTGATTGAGGTGCGCAGCTCCCGAGAAGCAGGAGAAGT  
AGAGTTTTTGACAGACAGGCCCACGAAGTCAAGCATGCGGAGTGCAGCCAAGCCCTGGAAC  
CCAACCATCANAGCAGGGGGCCACGGCCCANACCGGTGCGGCCTCTGCCTGCAGCCTCT  
TCCGGCATGAAGAGTTCTAAGTCTTCAACTTCCTTGGCTTTTGAAGTCCCGACTCANCAGG  
CTCAAGAGGGCCANCATTGAGGACACNCTCAACAAGCCANNAAGTACCT

Sequence 1624

ACTGACTGGGTCCCAGGTTTGTCTCACTGCTGTGCGGCTTGATGGAGGTCTCCTCACCACA  
GAACCCAGTCTCTGTGGGCCCTCAGAGCCTCAGGTCCCTTTCTCTCTGCCTTCCAGCAT  
GTTGCCCTCCTTTTGAAGGTGATCCTTTCAAAGATGTGTATCTCTTCTTCCAGGAGC  
TCCCATGCTTCTTTTCCCACTGCTCCCTTTCAACTCTCAGCGCCGCTGGGGGCAGGCC  
CCAGGTGCTGGCTCTGCCTGCCAGGCCGCACTCCCGCGT

Sequence 1625

TGTCGGTGTAGTGCTCCTCGATCCGCAGGTGCGACTCGTGGTACAGCAGGCCGTCGAGCA  
CATAGGTGGAATCGCGCACGCCGACATTCAACACGCGGGTGCTGAACGGCGCGTACTGGT  
CGGAGATATGGGTGTAGAACAGCCGTCCCGGCTCACTGCCGTACTTCGGGTTGACGTGTC  
CGGTGCTCTCGCCC

Sequence 1626

CCGNNGTACCAATTTATTATATGCTGCCTTCAGGTATTCATTTATATATTTGTCTCTTAA  
ACTAATTGTAAAGTGTTTCATTAGTACTGGCTTATAATCCACATGTNAGCAANNNAAGT  
NTATCTNNAACATTTACTTTAATATTTTAAATATTATAATTTCAAATGAGTTCCAATTTT  
CCCAACTTGCTCTTAACCAAGTATTTTTTTTAAACCAGTTCTCTACTTCTTTAATGAAAT  
AAAGAACTAAAATAATTTCAACACCTTTAATAACCAAATAAACATCAGGGAAATTATAT  
GTGAACATGTAATAACAAAATTAAAGCTACTGATCTGTNAAAGGACAGTANGAAAAATTN  
GTATTCAAAATGACANGGGGATATTTAAATACGACACTGCAGCAGCATAAACATGATAAA  
TCTCATTTTTGATATAAATGGGGAAT

Sequence 1627

GGCTGTGCGCCNGTTTCAGTGTACNGCAGGNAGTGCGCGTCTACNGACTCACNTTCGG  
NGCTGTGAGANNCATNNCCAAGCTTTAAGTNAANGTGNANTTTATANTTTTCCANTCCA  
NGCGGGGGNGGANNCAAAAGAAGCCTTCTCGGATCTTCCCCAAGGGCCANTCCCAAAGGA

Table 2

ACCGTTTCCTNTTTTCCAACCTTGGATTCCAATAATTNACCCTTTTATTCAATCCTTTTT  
GGGGGGGNAAAAAAGGTCAATCCCCCAGGTTCTTTGGGAAATTCCCCCTGGTCGGGC  
CCCAAGGTGGAAATTAAAGGAATAAGACCGGTCCCCAAGNAATTAAGGCCTCNAAGCCTT  
TCCANGGGTCCCCCTTTGGAGGGGGGTTCTTTTCCCTTCAAAAAGGGGGCNTTTTNTCCCC  
TCCAACCAAAAAGGGGGGGGNTCCTTCTTCCAAAAAAGANAAAAAGGGTGGGGGGGGCC  
CAACCAACCCCTTTNGCCTTNGAACCNAAATNGAAAAACCAGGGGGGTTTNCCTTNCCTT  
GGGCNATTTCAACAAAA

Sequence 1628

GCTCCCCGCGGTGGCGGGCCGCCGGGCAGGTACTCTCANNCTGTGGGCATTTGTCAAAATC  
AGTATTACTGCTGGGGGGGATGAGGGCTGAAACTCCTATTTACCATCTTTCTGACATC  
ATTTGCCACAGTGTGCTTTTTTTGTTCTGGTATTTCTTATACCCTTGAGTCTNTTCCCT  
ATTTTAGTCAACCCAGCAGNCTGTATTCACTCTTAATCAGGATTTGAGCTTTGCACC  
TGCTCCTTTTGGCTGGGGTTGAGTCTACTTCANAGGCTAGGGATATAGAGGGTCCAAAA  
ACAATTTAAATAAGAAAAATTGCTACGAATAAAAGTGTGAGAAAGAAATAGAAATCTAGA  
AAAAAAGAAAAAGAAAAATGAAAGAAAAGACTTTTAAATGTAAAGGCATCTGGCAGAGA  
GACCAATGGGAAC

Sequence 1629

AGGTGGCCGAGGTACGCGGGGGGCCAAATAAGCACTATGTAAGTTTTTTAATTTTCCCA  
AACACATGCACAGAATTAATATTGCCTTAAATTTTGTAGCACAAGTTTGAGAGAGCTCT  
TTAGTTCATAAAAAAATGTTTTATGGACCAGGTGCCGTGGCTCACACCTGCAATCTCAAC  
ACCCTGGGAGGCCAGGNGGGAGGATCGCCTGAGCCTAGGGAACCTTGAGACCATCCTGGC  
CAACATGGTGAAGCCCCGNCNTACTAAAAAATACAAAAAATTATTCTGGGACATGCTG  
GCGTGCGCCTGTAGGTCTCAGCCTACCTAAGGGTAGACTGGAGGTGGGGGANAAATCAAC  
CCTGAANCCCTNGGGNAGGTTGGAANGTNTNGCAATTNGGGGTTTGAGAATCAATGGNTA  
CTTGGNNACCCCTTGGCCCCGGGNCCGGGNTCCGGCTNCTAANAAACCTTAGGNGGGGATN  
CCCCCCCCGGGGGGCCTTGNCAAGGGGAAATTTCCNATNATNNAANGCCTTTATTTNG  
TTTAACCCCGGANTGNNACCCCTTGGANGGGGG

Sequence 1630

CGCGGTGGCGGCCGANGTNCGCGGGGGTATGCGATCGTGGCAGGATTGCAGGACGGGCAG  
CACTCTTTCTGCAGAAGGTAAAAATCACCTTGCTGAGGAAGCTTTTCGTCTGCTGATTCT  
TCTTTGTGACATCGGGGAATAAGGATTTATTTCTAACAGTCTTGGGGGCTCGTCTGGGAT  
CACCCAGTCTCCTTCGGGTGCGGGTCTCTGATTCCCGCCCCCCCCACCAAGGGGGAGGCC  
GCCCCACTGCACTTACTTGCCTGGCNCCTCAGNGGACTGNGGANTTCCGGNACTTACCTG  
NTTGTGGATGGAATAAACCCGGGACCCCTTC

Sequence 1631

AGGTACTCAAGAAACCCAGGCCAGAGTTACTGGAGCCCTTCCTCACAATTGGCCTTGGCT  
CCCTCTCCACTTGTGTGTTTTACATTGACTTGATCTTCAGTGGAGTAACTCTGAGCAGT  
GGCTGTGGCTCANCAGGTAGAAAACTCTCTAACCCCTTGAAGAGGGGAATACAGTAGCAC  
CATTGAAAAAGAGGTTGTGTATAGAGTTTCACTCTTAAATTTGCTTTTGCCAAGGGANA  
AANCCTGTGGAGGAGTGAAAGCAAGGTNGGAACTTGGGGGTCCAAANGAGAGGGNAATT  
AAAANTANTATGCCATAATTAATTTTGGTATTTTCTTGGGAAGAAATATTGNACCTGC  
CAGGTTTTTTATTATTAATAAACCTTTTGGGGTNTTTAAAAACCATTTTTTTTNGTAAAA  
CCCCGGCTTTTANAAGAAAAAATTTTGGGGGTTCTTGGGGGTTGGGGTCCAGAAATTTT  
TTCAANTTTTTGGGTAAAGGAAANATAGGNATTTNNTGGGAATGTACCCAGGTTTTTNTG  
TTTTTT

Sequence 1632

GCAAATGCAACGTATCGCCCCGAGAGATGAACCTGTGCGAAACCACCTTCGTGCTCAAGCC  
ACGTAACGGTGGTGATGCGCTGATCCGGATTTTCACCCCGGTCAACGAAGTCCCTTTGC  
CGGCCATCCGTTACTGGGTACGGCCATTGCCCTGGGCGCGCACACCGATAATCACC GGCT

Table 2

GTACCTGGAAACCCAGATGGGCACCATCGCTTTTGAAGTGGAGCGTCAGAACGGCAGCGT  
GATCGCCGCCAGCATGGACCAGCCCATACCGACCTGGACGGCCCTGGGCCGCGACGCCGA  
ATTGCTCAAGGCCTTGGGCATCAAGTGAATCGACCTTTCCCATCGAGATCTATCACAACG  
GCCCCGCGCCATGTGTTTGTGGTCTGCCGAGTATCGAGGCCCTTGTGGGCCCTGCACCCAG  
ACCATCGTGCCTGTCCAGCTTCCAGCATGGCCATCAACTGTTTTTG

Sequence 1633

GACAAAGTNTGCTTGAAACAACAACAGCTCTCATCGAATATTCAGAGAGTCCACTAGNG  
CCAGGCAANGTCTGAAGCTCCTGAGGACAGAGCAGNGTACAAAACCTACGTNTCCCGCTCT  
TGCAGGANACTCCTTTCTAAGCATAANANAGACNATAAAATTGGAGGCAGGAGTGGGTGG  
TGGGCNATGGGGTCCACTTTANATACAGNGATAATGGAAAAAATTTGCTGAGATGGCAT  
TTGAAGTGAAGTGAATGANATAAGACAGCAANGCCTAAGGTC

Sequence 1634

CCGGGCAGGTACTCCAATCTGGGGCCAGAGCAAGACCCTATCTCAGTCAATCAATCAAGA  
TTTTGTGTAATAATAATCATTATCCACAATTTTAAAAAATCAGCTTCAAACACAGAAAT  
ATGAAAATCAGAATTAGGAAGGCTGGTGGTCACTCTTCACTTAAAAATAAGTTTATAAAG  
AGTCCATTATCTGTTAGAGATATGTATTGAAGCATTTTCCAATAAAGTGAATACTGGGAT  
TTGCTTTAAATCATCTGAGGTAGGGGGAGCCTAGAATTAAGTGTAAAGCTAAGTGATG  
GGAGTTCATAAATTATTCTATTTTCTGTTTGAAATCCTCCATCATGAAATGTTTCATT  
TTGTTTTAAGTAAGTTTCCCAAAGATCTTTATNATTAATNACTCTGTAGATAAAATGA  
CAGGCTGNCCTTAAGCTGT

Sequence 1635

CGCGGTGGCGGCCGAGGTACCGCGGGAGAAATACAAAAATCAGCTGGGACTACAGGCCG  
CCGCCACCAAGCACAGCTAAGTTTTTATTTATAGTAGAGACGGGGTTTCACTGTGTTAG  
TCAGGATGGTCTCGATCTCCTGACCTCGTGATCTGCCTGCCTCGGCCTCCCAAAGTGCCG  
GGATTACAGGCGTGAGCCACCGCGCCGGGCTGATTTCACTTTCTCCAGCCCTTCTAT  
TGTTAACATGGGGGTTGTGTTGAAGATATAAAGTTACAAAGTCAAGGAAGTAGGAAACA  
TTTTTACAAGTATTATGTAGCCATCTTGGTGGGGCTGTGGTGAGGTAGGCTGCAAATGAT  
TCTCCTATTTCTTCCCTGAGTTCAGAACATAGGAATTAGATTGATAGACATCAACATAC  
CCGCTTTATTGCTGACTCATGACAACTAATGGGAAGACATGGCTCAGATGTGCAGCCACA  
GTGAGCTTCTGAACATTTCTTCTCAGACTAAGCTCTTACACACAGTTGCAATTGAAAGAA  
AGAATTGCTTGACAT

Sequence 1636

AGGTACTCTGCGTTGAACCACTGCTTCCCGCTACACATTACTTGACAACTGTTTTTG  
ATTTGTCCCTTACTGAAACTGTCCTTATGCTTAATCATTTTTGTCTTCTTTCATATCTA  
TTAGTTTCTCTAATTGCTTTGATCTGTATTTTAGCTACATTCAGTNTATTTTCTTA  
AGCCTTTCTTGATTTTGAAGTGCCATTTGTTTCCAACCTCTCTCTCGTTTNTTGATA  
TTATTTTATCTTTAGTTTTATATATTACGTTTTATCTTTAGTTTTAGTTTTCTAATT  
TTTAAATTAGTTCCAGCATGTGGNNTATATAATTTTATTTTAAACTTATGCCCCCAA  
TGATTACTTAAATTAATCTTTCTGAGGAATTTACANGGATTTAANTATAAATCTCTA  
TTTNTGGNTATTTATAAGATTGATNGGTCATTAAATTAAGGNGGNTNATTTTTCATNGA  
AAAAAGTTAGAAAATTAACCTTTTCTTTTCTTATACTATNTCAATTTTGGGNTCTTN  
CTTTTTAAGGC

Sequence 1637

GCCATGCTCTCCTCCTCTGCCAGTCTCCTCCACCACTCTCTAACCTGAGAGCCTGTGGAA  
CCTGCCCGTCTCCCCTCCTCCATCAGACACACCTGCCTAGGAAACAGGAAAGGACCTCGG  
AAGTCTTCTAAGGAGAGTCATGGCGTATTACCAGGAGCCTTCAGTGGAGACCTCCATCAT  
CAAGTTCAAAGACCAGGACTTTACCACCTTGCGGGATCACTGCCTGAGCATGGGCCGGA

Sequence 1638

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTTGCCTTTTGAATCTTTAT



Table 2

TGTTTTTCATTTAAGAAATGTGGAAATCTGAAACAACTATATTCTCAATCATGTTAGAAA  
AAGTATATGTAATATGTATTTTTTAAAGTCCAGTGGCTAAGAACTTAGACTGGGTTTTG  
AAATAATAATTTCTAACACAGTTTCTCAGTATGTTTCCTCTAGACAAGAGAAAACCTCTG  
NAATTATGATTCTTAATTTACCCTGGTAATTTTATAAGAAAAATGATTAATTACTTTGAG  
CCATCAGTTATACCAGATAATCATGGGTCTTTATTTAAACCNCAAAAAATAGAAAGAAAG  
CCGAGAAGCTTAAGCCTTAAATNTTAAGGCCAATTCGGCCTTTAGGNAAAAATGGAATC  
NGGGGTAAAAANATTTTCTTTAGACACAAGNCAGGCTTAACAATCTTTCTATTTTTN  
GGTGGGGGTNACCTANTTTAATTATNTTTTTTAAGNTTCAACCTAACCTCTTGGCCNCC  
AACCAATNGGGAATTTTGAAGGGGGGAATNTACCTANCTTTGGNAAAAA

Sequence 1639

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGACCACT  
TCCTGTGTTTTGTTAAGTCATGAAAATTAGATTTCTGATTCATCTTTATTTAGCATTTC  
CTATGTATGTATTTGTTCCCTAATATTCAAATCACCTTGCTACTTGAAATTGAATTTCTGAA  
GATAACTACTACAATTTAAAAATATTTATTTTTGCCTATGTAATAATAGGGAGACTCC  
ATCTCTACAAAAAAATAAAAAATAAAAGTTAGCTGGGTGTAGTGGCACATGCCTTATAG  
TTCTGGCTACTTTGGAGGCTGTGGTAGGAGGATCACTTGAGCCTGGGCGGGTGAGGCTGG  
AATGAGCCATGACCATGCCACTACACCTTGAGACCCTGTCTTAAACNAAAACNAGGAA  
CCCAAACCCCTATTATGGTGCTACTCAGAAATACTGNTAACATTTACCGGTTTCTTCNG  
GGCCTTAGCCTTTCTTTAATGCACACCNCACTGNACTTACTTAAATACAGGGTGNGTTT  
TCCCTTATTTGGAAAAACTTGGGAACCNAGAAGNGGAATTTGGATTTTAAAAATTTT

Sequence 1640

TATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTAAACCTCAATGC  
CACACTCATAATGAATAACCAGTCTACTATCTCTTATGAATTCCTGATAATTTCTCTCA  
TTTTACTCAAAAACCTGCCAAATGAATCCAGGACCGTCTTTCCAAGACTTAACTTTATT  
TTATTTGAATACTATGAGCTCTAAATATCTAGATTTTGTGAGATAAAATCCATGGTGT  
TGAGAATCTTTGTGTTAATATTTGGAATTAATAAATGGAATGAAATCTGATATTAATATA  
ATAGAAAGACTAGAGTCTGGCAGAAAGTTGGGCTGGATTNGTGCTTTTGGACCTTGGGNGA  
CTTTATCTAACTACTCCAAACCTTNGGTTTTNTTCCCAAGGAAACTGGAATGACCCCT

Sequence 1641

CAGTGTGATGGGATATCTGCAGAATTCGCCCTTTGAGCGGGCCCGCCCGGGCAGGTACCA  
AGAAAATGTGTCCAGGTCAAGCCCTAAGGCTTTCTGATAAACGCATTACCAAGTTTACC  
GAAAATATAGTGCCTACCAGAGACAGTGGCTCACGCCTGTAATCCCAACAGTCTGGGAT  
TACGAAGAGGCTGAGGCAGGAGGATCACTTGAAGCCAGGAGTTCAAAACCAGCCTGGGCA  
ACACAGGGAGAACCCATCTTAACAAAAAATTTAAAAATTAGCTAGGCCAGGTAGTGCATG  
CCTGTAGTCCCACTTACTTGGGAGGCCAAAGATGGGTCACTTTGAGCCCAAGGAGTTTGA  
GGCTACAGTCAGCTATGATCATGCCACTTCACTCCCATCTGGGCAACAGAGCAAGACCCC  
GTCTTCTTTAAAAAAGTGCCAGCCGGGCGGTGGTGGCTCACACCTGTAAATCCCA  
GCACTTTGGGAGGGCCAAGGCGG

Sequence 1642

CCCTTCGAGCGGCCGCCCGGGCAGGTACTCACTGCCCTATGCCAGGACCACACACTAGC  
TCTCAGTTTCTACTCCCTACTTTAACAATCTCAAGATGTTAAATGTCTCAAGGCAAAAT  
GGCTTGCTATTTAGCAAGTGTTACTAGAAGAGAAAAAGCATGGGTCTGTAAGCTCTC  
CATTTCCCTGGTATATTGGCATTTTTTTTCTC

Sequence 1643

CCCTTAGCGTGGTTCGCGGCCGAGGTACAAAGGGTTATGCATTAGGGACTGAGGGCGTCTA  
TGTTTATATAAAATAGCATTTCTATAGAAATTAATAAACATACCCATCACTGTGATATGA  
GATGCTCTGTCTCCATGTGATGCCGAAAATATGTAAGGAGCTTTTGGGCTAAAGCGTATT  
CAAATGAATTTTTTTAAGCTAAGGAATCTAATCATTGAAAGTATCTTTGTAAGTAATT  
CACCAAATATTTGGCCAGGAGAAAAATAAATTTTATTTAAATGAGCATTTATTTAAAGT

Table 2

TTGTTATTAACTTCTTGATTTTGCTTGAAGACGAGGTCTTTAAAATCCTGCATAACTTT  
AAAATGTATTGTATTTCAGAATTATTTGTCAGAGAAAGATAACAGGGGATACGAATNTAA  
ATTAATATAGGGATGATAATTATGATCTAAAACCAGTAGGNAATCATGTTATTTAA

Sequence 1644

GATATCTGCAGAATTCGCCCTTTTCGAGCGGCCCGCCCGGGCAGGTACACACTTGAGAGGC  
ATCGCTGTCCCTCCCTTCAGCTAGCCATATTCCGTCAATATATGAAGGTTTACCTATTAGT  
ATGATAAATATCAGATATGACTTTTACTACCAAAATCAGAGCTTAATCATCAGCATTGT  
TTCTTGCTATTTGTTTGGAGAAATTGTTTCCTGACCCCAACTATAAGACTATAGGACCCA  
GCTTATGGAATGCTGCCTTATCTATCTTGGCTGAACTTTCCACACAAAGTGACAATAGTG  
CATGAAAAACAAGTTTAAAGTGACAGGTTTACAGACTGTTTATCCCTGCTTTCTAAGGAA  
TATTTTTC

Sequence 1645

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCCGCCCGGGCAGGTAC  
TTTTCTTTATGAATGTTATACCAGAACTTAGGAGGAAAAAATTTTGGGCATAGTGAATA  
TTAGGAATTGGATATCTCCCTAAATTATTAAGTTTCATCTTCCATAAATTCTGTAAACT  
GAATGTAGTATTTCCCTCTTCCCATGCAAGTAACTGATATCACTTTAGAAAACCTGAT  
ATGAACATTATTTGTTATTGTGCTTTTATGAAGAATTCTGTCTAATCTTCTCATAAGAAG  
AAAGAATTAGAACCACAAAAATCTAATTATCAGATTTAGTAAGATGTAGGCAAGATCCACC  
TATTTTTTTCATTTATGTCTTTCAAAAATCAATCACATTCTATTA

Sequence 1646

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCCGCCCGGGCAGGTA  
CCTACTAGATGCCAAGGTCACGAATTAGGGTAGGAAAGGAGCTAAGAAGAGCAAAAATGT  
TAAAAGGAATCCAAATGATTTATAGGAGTGGTGAGATGGTGGTAGGAAGAGTTGGGATG  
ACATCAAGGTGGAAGAAGTGTGTTTGGTGGAGACAGGGACTTGCTCTTTTGCCAGGCT  
GGAGTGCATATCACGGCTCACTGCACCTCGATCTCCTAGGTTCAAGCAGNNGTNCCTGCC  
CAGCCTCCCAAAGCAGGCCGGGACCACCGGATNTGGTGTACCATAGCTNGCCTAATTTT  
TAA

Sequence 1647

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACCTAGAGGAATAGTGCTGGGAGGTGCAGGATG  
GGGTCAGGAGTAGGGGCAAATGAGGGATGTCTTTTGAAAGTGAGAAGAAAGCAGAGATTC  
TTTTCCAAGAAAAGATTTTTTAAATATCAAGTAAACATATGATGATGATATCTTAGAT  
ATAAACATTGTAATACATTGCTACTCTACTCATAAATCCTTTATCAGACAACTGATGG  
GATTTAATAATGACCGTCTTTTGTATTTGTCTATGGTAGGCATTGTAGTTTCTACATAT  
ACTGACAATTCAATTTATCTTTCTTGGTGTTCTTTTATTATTAAAGTTCTCAGAGTAAAA  
CAAAAACAATTTGAAAAAATTTCTTTATCTCATTCAATATCATGGCAAATGAAACGTCA  
CAAAAATGGTCATAATTTACATTGAGAAACAATTACAGGTTAAAAATCTAAAAAGTGGA  
AACTTGCA

Sequence 1648

CCCTTAGGCGTGGTTCGCGGCCGAGGTACGCGGGAAGAGAAAATCACTTGGTTTATAGAAG  
GCCTTTAACATTTTGTGAGTATGTGTTTTAAACCAAAACCCATAGATAGGAAGAGCCGAC  
AGGGAGCTGGAAGTGAATAAGCTTTCTTCTAACTAGCAAACGCAGTTGACAGACATCT  
TTTTATAGACGTATCTGTGATTGCACGCTGTTTTAGGCTTGATAATTTTTCAACAAGG  
AAAACTTTTCTTCAATTTGAAAAAGCTGTTTACAGTAAAATGGCAAAGTATGAGAAGAC  
AGAAAGCCATCCTGCTCATTCTAAAGCTAAATTGGGCCACATTTCCCTTAAAGTATAGAC  
AACAGCAGCAGTGGAACACAAGTTAAATGTGTGTTTGTAGTGAAGAAAAGTTTTGAATAC  
TGCCGNCACAATAATTTTCAACCTTGAATTCCTTTATTGAGAAAAGTGACCAAATCA  
NTGGAGAGANGGAAAGGGAAAAGA

Sequence 1649

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACAGACGGTCAGAAGGAAAGAAGGAGAGGGATT

Table 2

GCCTGCTGCCTCCCCGCGTGCACACACGAGAGTGGGTGCTCCCACCAGCTTTCAGGGGGC  
TTTCTTCACGAATGTGAGCACTGATTTTGGGAGATCTGCAGTGGAAGTCAAGTCATGAA  
TATTTTTATAAAGAGAGAAATGATGTAATTTATCACAGAAGATATTCAGATGTATTT  
TTCCATTTTAAAAATTCATTGGCAGTGCTCATACAAGAGAATTACTTGAGCTGAAAATGA  
CTCTGTCCAGTTTCTTCCTATTTTCGTTAATGATTTTGCAGTCACTGAATCTTTCTAAAA  
GTTGTATAACCCAGATAAAGTCAGGCCTCCTGGAAGCCAGCTTCAGCCCAGAGACATACG  
AAAAGAAGCACCAATNTCACTGGAAAACCAATTTAAATTTATACTGAATAATCTCATT  
ATAAACACAGCACAAACATTCTGAAGCCTGNCCCTTCCAAAATCTATAAGCTCTCTGCCA  
CTCTGATGACTTTTCATTCTGNCTCTTTTTCTACCCCAAAAAATCTCTCAACTCTCTTC  
AATCTTTCTGAAAACTTTTNCCTTNTCTGGCTTAANNCTAACTNTTGGGCTTTTCAAGT  
GCCCCNCTGTATTNTATTTCTNTTGNCCCTCAATTTAANCNTTGTCTNTTTTCCCGA  
TTGTCAATTCCANAACCGGCCNCAAATTTTCCCACTTAACCTTCTTTAACCCCT

Sequence 1650

CCCTTAGCGTGGTCGCGGCCGAGGTACACTCTCTGCCTTAGAACTACCATCTTTTGCAC  
ACATTCCAGATAAAGGATTTTGTACTACATTCTAGGTAAAGGATATTGTTACTATCCTC  
AAGTTACACAGAAAACACTCAAGGATGTAAATCAATATTTATCTCAAATTTGTTGACTG  
CTACTGCTATCTTTTTGAAGAATTAAGATAAAATTAATTTCTAAAAATATGCCATA  
TATCAATAATTTACAATAGCTTGATCAGCCAAAAATCCACCTTGAGCTTAAAGCTAGAG  
TTTGATAGGGTGATCCTTACTCTCCTAATTTAAATATCACTGTATATTAAGTTTACAAT  
ATACAGTGTATATTGTGTATATTGNGTATACAAATACAGTGGATATTCTTTTCCAAAC  
ACACTTTATTAATAATTACAAATCACAGGGAAGTAACTGCACAACCTTCTACTAGGGTGT  
TTATTAAGTACTGGAAAAAGTTTAATTACAAAAAACGTATAGGTCCCTAGATTTTGAAT  
GGTAAACCACACATACCTTGTTAGCTGGCTAAAAGAATATATTGGAATATATTTTNGGA  
TTTTGCAATGGTTGCCCAAACTAATGTTAGGGAAGTTACCTAAAAAAATTAAT

Sequence 1651

CCCTTTGAGCGGCCGCCCGGGCAGGNACTCACAGCTGCATCACACTGAATATCATCTCC  
CTGCACTGCCATTTTCATTTGAGCAGGGCGTTGCCGTCAAGAACATTCATATCTTTTGT  
AAACAGTGCATTTTTCCTGATAGTCTGTATGGGACAGCCTCCTTGTTCATCTGAAG  
GGACAGGGACTTTCAGGACCTCCTGCTTGTGGTCCACCAAANGGAATCACCATTCAAAC  
TTTCTTCAGCAAGGGTGTATGGGNCCTTTCTCANGTTTTGCCCTANCGATCCCATTTGA  
GGGCAAAAANGGTTTNCNTTCTTNTNCAAANTACAACCCCTTCTGCTTTTTANCCAA  
GGGGGGGAAC

Sequence 1652

CCCTTTGAGCGGCCGCCCGGGCAGGTACACCACTATCGCTGGCTAATTTTGTATTTT  
TCCAGAGACGAGGTCTCACTGTCTCACTGAGCTCAGGCTGGTCTCAAATTCCTGAGCTCA  
AGAGATTTACCAGTCTCAGCCTTCCAAAGTGCTAGGATTACAGGCATGAGACACTGTGCC  
TGCCAGTAATTTTGTATTATTAAGGTGAGGTTTATACCACCTTCTTCTGATTAC  
AGAAGTAATACATGCTCATTATGTAACACTGAAAATGTAAGCAGTATAAAAAAGAAAATA  
AAAAAGAATATGAAAATCACTAGTGGTCCCATTTGTCTACTGATACACTATGTGCTGCTTC  
CTAATCTTTAC

Sequence 1653

CCCTTAGCGTGGTCGCGGCCGAGGTACTGATGGCAAGGTTACTCAAATATTTATCAAGCG  
TCTCAAAGAAGAAGACTGATATAACCTTGCAATGTTTGAATACAAAAATTAATTTAGTT  
ACTGTCCACTCTCTTATTTCCAGGTAGAGGGACTCTGACCCCTCACTCACTCCTCTCCT  
AATCAGACTGGTTGGTTTTAGAGAAGGAAATGAACATGCCTAGATCAACCCCTTCTCTC  
CCTTTTTCTTGGGATCTGCACACTCCGCAGAGAGCACGAATTCCTCTCCACCCAGAT  
CCATAAATGTTCAAGGATCTGCTCCCTGCTGGAAATGCCACAGTTGGGTGGGGGTATATT  
GATTCGGGGGCTACTGGCAAGTCCACAGTTTCCCCACAATTAACACTTTTCTCAAACA  
ANACTGCCATTTTCTAACTCCTGGCTTGTCAATCTTGTGGGGGAGGGAAAAAGTGAAAG

Table 2

TGCAACCTAATGAAGTCTTTTTAAAA

Sequence 1654

CCCTTAGCGTGGTCGCGGCCGAGGTACCAAAGAGATTAAGGAAAAAATGCAGGCTGTGAA  
TGATGGGGCCCCTGTGTTCTTTCCCACTTGGCTCTCACAGTCATGGCAAAGGCCCTTT  
ATNCTTCAGTTTAAACTCAAACTTTCTTTGGAAAGCTTGACTTATTCTAAAGATATCG  
CAGGACTTAACCCAACAAACAGCCAGGCCGCTTGACAGGCCCAATCGTGATGCCAGCGTGCT  
CCACCCTATTAATAAATAAGCAGATCAGCNTATNTCNGAGAAAANCCTTTAACATG

Sequence 1655

CCCTTAGCGTGGTCGCGGCCGAGGTACACTGGAGGTAGGGAGCTCANGGATGGCAGCTCA  
NATCCGGAACAATTACAATTCATACTTGGGCATCAGCACTCTAAATCCCGAGGAGCTAG  
CCAGGAGTGAAGTGAGGAAAGAGCAAATCAATTTAAACATTGCTAAATACCAAAGACAAG  
CTAGCTATTTCTTACTTTGCATGAGGCTTGCCACGTCCTTTCTTGTAATTGTCTGGAC  
CATCTCTGGTCATTT

Sequence 1656

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTAAACAACCTCTCCAACATAATATCAAA  
AANGTAAAGTATTCTCTTACCTTGATATCTACATCAAAGAAAACCATAAGGAAAAAGAAA  
CTACAGATGTGCACGCAGTTAGTCCAAGATGCTTAANAATGTCACATCATGTTNAACTG  
AGTCAACCTAACAGTANGGCTGTAAAAACAACCTTACTTCCTGATTTGTTACTGCATTCA  
GCTAATGTATTGAGGGCCTATAATGACTCAGATCCTAAAAATATNAGGAATAANGAAGCA  
AAGAACCCTTNCCTAAGCTAGNNCAGGAGACCTATCAGTAAAGACATGACTGTAACACAG  
NATGGATNTNGTTNACTGGTNTTAGGTANCAACAANGGGTTTTNAAAGAAAGGNTTATCG  
GTTTCCANATAAAAAATTTGATTTTTAAATNTTCCCATGTTATTTTTAAAAAAA

Sequence 1657

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTGCTACACGGCCGGGGCCATTGAGACTG  
TCATGGAAGACTTGAAAGGTCACGTAGCTGAGACTTCTGGAGAGACCATTCAAGGCTTCT  
GGCTCTTGACAAAGATAGACCACTGGAACAATGAGAAGGAGAGAATTCTACTGGTCACAG  
ACAAGACTCTCTTGATCTGCAAAATACGACTTCATCATGCTGAGTTGTGTGCAGCTGCAGC  
GGATTCCCTCTGAGCGCTGTCTATCGCATCTGCCTGGGCAAGTTCACCTTCCCTGGGATGT  
CCCTGGACAAGAGACAAGGAGAAGGCCTTAGGATCTACTGGGGGAGTCCGGAGGAGCAGT  
CTCTTCTGTCCCCTGGAACCCATGGTCCACTGAAGTTCCTTATGCTGCTTTCACTGAGC  
ATCCTATGAAATACACCANGTGAGAAATTCCTTGAAATTTGCAAGTTGTCTGGGTTCTAG  
TCTAAGCTTGTCCAGCTTATCCAGAAATGCCACAAAGAATCAACTGGATCTTGGAAG  
AGGAAAA

Sequence 1658

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTGTTAAAGTCTAGAATGGTGGTAGGTGCCT  
ACATATATTATTTAATTCTTATAACAATGCCCAAAGGGTCATTCCAGTTTCTTGAAAG  
AAAACCAAGGTTTGGAGTAGTTAGATAAGTTACCCAAGGTCCGAAGCACAAATCCAGCCC  
ACTTCTGCCAGACTCTAGTCTTTCTATTATATTAATATCAGTATTTTATTCCATTTATTA  
ATTCCAAATATTAACACAAAGATTCTCAACACCATGGATTTTATCTGACAAAATCTAGAT  
ATTTTAGAGCTCATAGTATTCAAAATAAAATAAAGTTTAAGTCTTGAAAGACGGTCCTG  
GATTCATTTGGCAGTTTTTGGGTAAAAATGAGAGAAAATTATCAGGAATTCATAAGAGAT  
AGTAGACTGGTTATTCATTATGAGTGTGGCATTGAGGTTTAAAA

Sequence 1659

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTCTCTTCAGATGGAGCTTGTGTTGT  
GAGCTCTGGAGAGGGGGTGTCTTTCTACACTGCATCTCCCATCCTTCCTAACGAGTCAC  
GGAGCTGTCGACTCCGCCTTCTTGGCTTTAGTTAACAGGTTCTTCTTGTTAGTCACATC  
AACGTGCGGTACATGGGAATGTGGTAAAGCCTCATTACTGTAGAGTTCAGACATGATCA  
CTTAAAAAGAGCTTTATTGGGCCGGGCCGCGGTGGCTTACTCCTATAATCCAGCACTTT  
GGGGGGCCGAGGCAGGCAAGATCACCTGAGGTCAGGAGTTCGAGACCAGCCTGNCTANAC

Table 2

ATGGCAAAACCCTATCTCTTCTAAAAATACAAAAATAAGCCAAGGGCGT

Sequence 1660

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGTAAATCTCTCAGCTAAGTTAAGCTATAAAT  
TTGATTAGGTTGACTTGGGCAAATGCACCATAAAGTCCTTTCCAGAGAAGGAGTTCACTT  
TTCATAGGTTCTACTTGAAGGAATTGTCCAAGAAGGTTTACTGTATAAAGGAAATTGAAC  
ACAGAAGGAATGAAAAGTAAAAATTAACCTAAAAATTTGCAGAAGAAAACACTACAGAAA  
ATTTTTGTGACCTGGGGTTTGGCAAAGATTTCTTAAATATGACACCAGAAGCACAGTCTA  
TAATGAACCGTATTAGTTTATTGGGTAAATCAAAATGTAAACTTCTGCTCTTCAAAANA  
CAGNATTAAGAGAATAAAAAGAGAAACCACAGATTGATAATCTTTTGTAGCCATGTNTC  
TGATCAAGGACATGTANAAATATATAAAGAACTCTGGAAAGCTCAATAGTAAGAAAAA

Sequence 1661

CCCTTAGCGTGGTCGCGGCCGAGGTACTATTTTTTTCAGTTGTAAAAAGTAAAAGAGCTA  
GGTTTTATGAACAGGATGGGAAGCCAGTTATATCCAGTTATATTCGATTTCTGGTTTTA  
ATAAACTAAAGAGAAAAAGTGCTTTTTAGGCCAAAAATCCTGAGATTTCTAATAACAGACTG  
TTTTTTTCATCATCTTATTAAATAACCTATTGCACACTGATTACATTTATTCTTACTATT  
TTCTTTATTTTTCTGGATCATTTTCACAATTTTATTTTTCACAGCATTCTCAATACTT  
TTCTTCATGTTTCATTAATGTTCTGTATATAGTCCGAATTCTGTAGCAACCTCTTTAGAA  
GCTCTTTATTAATACCTAGCTGAAATATAAAAAATATGTAAGTGTAAACTACTCGA

Sequence 1662

CCCTTCGAGCGGCCGCCCGGGCAGGTACTGGGGAAAAAATCGTGGAATTTTGGAGACAA  
ACAAATCCACGTNTAAATCCTCACTTTGCTACTTACTTACTAATATTCTACCCAGGGCAG  
GTTACTTAATGTCTCTGAGACTGAATTTTTCTTCATTTAAATGGATAAATNACTCTTTG  
TCTTAAAGCTTGTTTTGAGATAAATACTTTNGATGGTATGTAGGTGTGTTCAACAAG  
AGTAACAGTAGTTTTCATTTTTTAAGT

Sequence 1663

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGAAGTGTGTTTCAGAGTGGCGAGGAAGGGCAA  
GTTGTTAAGATTGGTTGTTGAATTAGTTTCTGTTTGATGTTAAAGAGAACATAGAGTAA  
TGATAATCCCTCGAAAGTGAGATCTTGGCAGGCTGGCGCCTGGTGGTATAGTAGAAATC  
TGAGAAAGGGGGAGGATATTAAGTCAGTTTTATCAGGTAAAGTTGAATGAAATAATCAAG  
TTAAGTGCGTCTTGGGTATTTGCAAAGATGTATAGATTAAGGCTAAAAGGGTTGGAGAA  
ATAGATTGGGAGTTACCTATGATTTTTTTTGGTTATTCTGCTCTCAGGATTGAAAACTA  
AAGAATCTCAGAACTGCATTTCTAATTAGTGCCCATAAATTCCTTTATTGATGCCAAGTT  
TTTGGTTTTT

Sequence 1664

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTAATACACCATCCTGGTGGATCTGGCGC  
AAGGGAACCTCCACACAGAAAAACACTGCCCTCACGTTATGAAAGGATTCAACATTATTCT  
CTCTTTTGAAAGATAATTGGCTTCAAAGAATAATTGAAAGTTAGAACTTGGGTCTTTTA  
CAGAACCCAGGTAATATCTCTACTACTCTTTTGGGAATTAGTCTTGAAGTGCAGCCACTGT  
GAAAGCTTCTGGTGTATTTAAATTAATTCTTGATTGNTATTAACCTTTCCACATGGTT  
TTGTTTATCTCCTCAACTAGGGTTTGTGTTCTGAGAGGCAAGAACTATGCTTATATATT  
TTTAAAAATATTTTCAACATTATTTAGCACTCTTATTAATATTTATTANGCCCTCAAT  
AACATACTGTAAATTTTGGTTAAAAAGCACCTAAATTGCTTTAAATCCA

Sequence 1665

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGCAAAGGCACTGAGGTGGGAGGGAGCATGCC  
AATGTAGGGAAATGAAGAAACCCAGTGTGTATGAGCCAAGCTGAATAAAACATGAGAAGA  
AGCTGGAGAATGAGAGAGACCAGTCCCCAAGCTCTCAAGGAGCAAGAGGAAGCCTTTTCG  
GCATTTGAAGTGGAGGGATGGCATGATCTCGTGCCGTAGTTTTTAAAAGAACCCTCAGG  
CTACTCTTTTGAAGAATATTGTGGGGAGGCCAGAGTAGATGCCTATAGGACTTATACAGA  
AGGTTAAAGGCAGTTGATAAAGAGTATTAACAATGA

Table 2

## Sequence 1666

CCCTTAGCGTGGTCGCGGCCGAGGTACACTGAGCCTAGAATATCTTGTGGGGTCAAAGG  
TAAGGCAGTGCTCAAAAAACAACAGTAAATGGCAAAATACATAGAACCAACTTGAAG  
GGCATCCTAATGTAAATCTAGAAAAATCTGAGCACAAATGTATTATAGTCATGGGTTA  
TAACCAATATAATGAGAATCCAAGAGTCCAGACTGATTTTTAAAAAATTGCATTTTTCA  
ATATAAAGAAAAATATCTTCCTTATAGTAACATTTTAATTGACAAATGTAGAAGTAATGA  
TGGAAAGTANGAAAACTACTGGTTNGGCACACACTGGNGTNATAACTGGTTTTCAGGCAA  
GAAATTATCCACNAATGCCTAAAATTANGTTTGGGTGGAAAAGTNTNGATTGAANGAAC  
CAAAGGATTCCTTTANCATTNAGGGNCCAAAANGCATTCTTCCTTGACCAAAGNATACCT  
TTNNTTTCATTTTCCCCCANGGAAAAAAA

## Sequence 1667

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGAAGAGAAAATCACTTGGTTTATAGAAGG  
CCTTTAACATTTTGTGAGTATGTGTTTAAACCAAAACCCATAGATAGGAAGAGCCGACA  
GGGAGCTGGAACTGCAATAAGCTTTCTTCTAAGTACGCAACGCAGTTGACAGACATCTT  
TTTATAGACGTATCTGTGATTGCACGCTGTTTTAGGCTTGATAATTTTTCAACAAGCA  
AAAATTTTCTTCAATTTGAAAAAGCTGTTTACAGTAAATGGCAAAGTATGAGAAGACA  
GAAAGCCATCCTGCTCATTCTAAAGCTAAATTGGGCCACATTTCCCTTAAAGTATAGACA  
ACCAGCAGCAGTTGGAACACAGTTAAGTTGTGTGTTAGTGAAAGAAAGGNTTTTTGAA  
TACTGCCGCCCAANAATTTTTCAAACCTTTGAATTCNTTTATTGGAGAAAGGGACCA  
ATCAATTGANAAGAAGGGGAAAAGGGGAAAAANNAATAATTTGAATTTGGCAAAA  
TTTTCTTTNAACCAACCTNNGGATTTNCNNGAAGTTNAAAAGAAATGAATTTT

## Sequence 1668

CCCTTAGCGTGGTCGCGGCCGAGGACTATGAATTTTAAATTATTTGCTTAGACAGAATA  
TGTGGACATACAAATGATGAATGTGATAATTGTCATACATATATTTATCTTAGACACT  
TANTCAAAACATGTGGTTTTTGGTTATGAGTTANACACTGTCACTTTACCTGGAAGATAC  
AAAGTAATTGGGTCATAGACCTCTCAAATNATTGGAACACTTANATTTTTTCAGGGGGA  
TGACATGGAAGGGGAGCCCAGGNGTCTTATGATTAAGGTAATA

## Sequence 1669

CCCTTTGAGCGGCCGCCCGGGCAGGTACTAGACCCTATCCCTGCAAGGACTGAGCTGTA  
TTTCAACAATCAGAGATTAGAATAAGATGGCACCAATGCCAGCAGAAGATGGTCACAGA  
TGAGATGAGCAGCAAATAACATTTGTGGACTGACTTTATCAGAACTCAACAGAACTGGC  
CCTTTGGCCTGCAAAGGTCAAGATATCAGGTGAAAAATATATGGGTAATGAGTAAATATC  
ATATCTAGGCATC

## Sequence 1670

CCCTTAGCGTGGTCGCGGCCGAGGTACACTCTGGACTCCCCAGCTCAAGGTGACTCCGAT  
AATATAACGCATGTGTGGAATGAGGATGATGGACAGACCTTATCTCCAAGCAGTCTGGCT  
GCACAGCTCCTAATTCTGGAAAACCTTTGAAGATGCCCTCTTAAATATATCAGCAAATAGT  
CCTTATATTCCTTACTTGGCATGTGTGAGAAATGTGACTGACAGTTTGGCCAGAGGTTCA  
CCAGAAAATCTAAGACTCCTGCAGTCCACAATACGATTTAAAAATCTTTCTTCACAAT  
GGTTCCTATGAAGATTACTTTCCTCCAGTTCCTGAAGTCCTAAAATCAAACCTGTCTCAA  
CTTCGAAACTTGACCGAACTTCTTTGTGAATCTGAAACTT

## Sequence 1671

CCCTTTGAGCGGCCGCCCGGGCAGGTACCAACAGCTTTTACAGCAGATGTTAGCATTAC  
ATATGAGAAAGTTGCAGCAGTGTGCACATTGTGCTTCTGCCCTAGATCCTTATGTAAATA  
GGACGTCCGTGACTTGATGTTGAAATGACCTTTAGGCAGTATTCTGTTGCCACATGCCT  
GAGCTTGATCCCAGAGTAATTAGACGTTTTGACTTACACATCTTGGTATACAGTGTTTA  
TGCTAATTATAAATGTCTGAAAGTTTCTGAAACTTTTTCTTTGTAGCTTTTTATCAAAG  
ACAGACAGGAGGTTGGGAGGAGGTTGTGGATTGTGGTCCTAAGCCTTTGATTTTCAAGT  
CTCTCATTTTTTGGGAATGAAAAATTAATAATCTGCTTTTCCAGTTGCCCGAANACATGG

Table 2

GNGGGGATATTTTTATTATTTCTTCNATCTTNGAACAAAANAAAAGTGNNTTGGGAAA  
TCACCAGCAATTTTTAAATAACCTTTTTTAAAANTAAAATATTTTTAATTTCTTTAAA  
GGGGCATTTTTAGNCTTAAAAAAATTTAAAGGANTTGGNGGAAGTNCCCCCTTAAAT

Sequence 1672

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTAGTGGCTTTAGTTTAAAAGATATGCTTCA  
TTACTTCATGCCAAATAGTCAATAAAAGGTTTGTAAATCAACATCAAAGTGGGTAAGTCC  
TTCTTAAAATTTGTTTTAAAGCAAAAGATCCCAAAATACCAGTTGTCACCATTTTAAAA  
GGATATTTTAAAAGATTTCTTTATGGNTATTCAAGTAAGAAAAATGAAAAAGNCAGAAA  
TTTTACTTCTC

Sequence 1673

CCCTTTGAGCGGCCGCCGCGGCCGAGGTACTTTGCTACACGGCCGGGGGCCATTGAGACTG  
CCATGGAAGACTTGAAAGGTACGCTAGCTGAGGCTTCTGGAGAGACCATTCAAGGCTTCT  
GGCTCTTGACAAAGATAGACCACTGGAACAATGAGAAGGAGAGAATTCTACTGGTCACAG  
ACAAGACTCTCTTGATCTGCAAATACGACTTCATCATGCTGAGTTGTGTGCAGCTGCTGC  
GGATTCCCTCTGAGCGCTGTCTATCGCATCTGCCTGGGCAAGTTCACCTTCCCTGGGA

Sequence 1674

CCCTTNNNGCGGCCGCCGCGGCCGAGGTACCTGGGTGATGGCCATACTGCGTGCCGCCATA  
AGCTCAAGCCATGTGCCNGAGGCTGTGCATTTAGGGAAGAGAAAAGAAATGTTCACTCCCAA  
AAGAACTGATTCAAGGCTGAACAAGAACCATTGCACATCCTCAGGAGGTTCTAGCAAACC  
TTGCACATCCATGTTCTTGCACTTATACATACATAAACAGGAGTGAGGAATGCCTTTCCC  
ANNAGCANCAGCAAGAAAGTTTCAACTNGGCAAACCGACCCANGGANGAATTTTTTCAGG  
CTTCATCCNTTTTACCAGNAAAAAATNGTAAACCTTCCCATTG

Sequence 1675

CCCTTCGAGCGGCCGCCGCGGCCGAGGTACTCAAGGCCACAAGACAGGCCGCCATAGAAGT  
TGGCCTTGGGGAATGAACCAAGCTAGTTTGGAGAGTAGGGTGATTGGGGTGATCACTTT  
TCCCTTTAAAGGTGGCATGCTGCAAGAAGAAAGGCTTTGAAGAGTGATGGGTAGTCACTA  
ACCATGGCACTATNCTATNTNTAACCAACGTGATGGGGTCTGGAATGATCCTAGGTCT  
GCACTAGAAGAGGTNGACCCAGAGGACCTTGTCTAACATACCCCTTGCTTCTTGACTTCT  
TCCCATACCTNGCGTTTCTCTCCGGCCTCAATTACTGGNCTTGAGATGTTACACCTTTN  
CAAGCATTAAAATGATGAACCCGCTTCATGGTGCCTGTAAAAGGCCCTNTTGGCAAAGC  
ACCCTGCAGNNGGTATTGTTTTNGNGTTTTCTTCNACTTTCACCTNTAAAAAATG  
AANAGGNNTTNAAGGGGNAAAAAANTGAATTTTNGGGCCNTGGGACTTTTTTAACCTTG  
GNTTTTTGAAAANACTTGCAATTTGGCCTTTTAACTTTNGGGGNTTGTNAGNCAAN  
CCCAAAAANAANGAAGCTTTTNAATTNAAAAGGGGCNCCANAAAAANAACAATAAANCT  
TGNCCNTNGGTNTNTTTAACTNATTAAACCAATTGAAGGGNGTTTTNNGNAAAAACNAA  
AAAATGGCCAAANTTTTTAAAAAANAATNGCCNTTTTCTTTGGGGGGG

Sequence 1676

CCCTTAGCGTGGTCGCGGCCGAGGTACTCCCTCCTTCGCTACCAACTTCTGGNCACAG  
CCACCATCATCTNCCCGCCAAGCTTCCTAACAGGACTCCCTGCTCCTTCTTACCCAC  
CCGTGGTCTATTCTCAACACGGTAGCAAAAGAGAACTTCTTAAACTTATAGCAGATCAA  
CACCTCCACCTCTCGCACCAGAACTGTGTGAAAGTTGATTATACAAAATGGGTGAGGGTG  
TANCGCAAGGTGTGAAAGTTCATGATGTGAATGGGTCACTTTTGCATACCCCAACTG  
AATCACTCTGAGGGCCTGGAGG

Sequence 1677

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTGGGGACAAAATGTTTTGTGGAGATAATG  
TAGACTTAAATTTTAAATCCGTAGCTGTATTTTCGTCACAATGAAAATTTGATGTCCTT  
AGTAAGCCCCGAATAGAAAGCCTTGACTTGCTTTTTGAGCATAGTTAACAGTGTTGAGAT  
AAGAGAGGTTTGCTGGCAGTTGCACT

Sequence 1678

Table 2

CCCTTAGCGTGGTCGCGGCCGAGGTACACAGCAGCAAACAGTTCAGATTGTTGATGCTTT  
TGATGACCATTAAATGCAAAAGGATTATGGATTATGGCACTGTATTATGAATAGACAAAA  
GATTAGTGAAAAGTTGTTTAGCCTAGTAGACATTTTGACGCTTCTGCGTGAAATTGAAA  
GATAAACAGAGAACCATTGAAAGTTCATGTATCAATTAATAGGTCAAGTAAAAATGTAT  
CTAAAATTCAACAAGAAGAGATTGTTTTCTATTTCAAGTTTTCAAATGCAAGGTAGTGAAC  
CCGAAATCAAATCAACAAAAATAATGGTCCCAAGGACTCTTATTATAAGTATACAAATGT  
TGTAACCTCCAGGAAATGAAAATNTTAATGGGTNTAAATGAGAAGAACTNTTAAAAACAA  
GCCATCCCAACTACCAATAAAGCCTAATTCTACTGACAGGTANCTCCACATAATAACC  
TAGAACCAATTTTTTAAATAAAATAAACTCAAGGCCTTTTAGCTGACCAAAAAATTT  
TNTTGAATGGAAAGACCCCTTAGGAAAGTAAAAAAAATTNTACCTTAAATATNATTT  
TNCCAAAGCCATTATTAAGTAATTTTTTTTAAACCTTTATTGAATGNNGGGGAGCCCTG  
CTCCATTTGGTTTTAAAGAATTTAATAAAAAAGGGTTTTTCAGNAAAAAACCTTTTNCCT  
TAAAAAAATCCNTAAAATTTTTTAAATCCNTTTTTTT

Sequence 1679

CCCTTAGCGTGGTCGCGGCCGAGGTACTCCAGCTATCAAAGGAGAATAGCCTTTAAAAACA  
CCAGGATCCTGGTCGAGATGGTAGAGGTGGTCTGTTGAATTTGGGTGAATAGAGGAAAT  
GCCAGTTAAGGGATAGCCATTCTACAGACAAAAATGCAGCCGCTATACTTTTACTCCGT  
GGTAATACATTATTTGTATTTCTTCTTTCTTAAGCCTCTTGCTGTTTGTCTTAGGTATT  
TGTCTTATGTATTTGNCACCTACATAAAATATGCTCACTAAAACGCCACTGACTTTAAGG  
AATTTTAAGTATGATTATATGTGGTCCTTGTAAGAAAACCATCTTTAAAGTGAAAAAAA  
GAAGTTTTTTTTTAAAGCTAAATTAGGAAACAAAAAAGATCTGGAAACTCTGGAATG  
TATACCCTATAGAAATGG

Sequence 1680

CCCTTTTCGAGCGGCCGCGGCCGAGGTACTTTGCTACACGGCCGGGGGCCATTGAGACTG  
CCATGGAAGACTTGAAAGGTCACGTAGCTGAGACTTCTGGAGAGACCATTCAAGGCTTCT  
GGCTCTTGACAAAGATAGACCACTGGAACAATGAGAAGGAGAGAATTCTACTGGTCACAG  
ACAAGACTCTCTTGATCTGCAAATACCACCTTCATCATGCTGAGTTGTGTGCAGCTGCAGC  
GGATTCCTCTGAGCGCTGTCTATCNGCATCTGCCTGGGCAAGTTCACCTTCCCTGGGATG  
TCCC

Sequence 1681

CCCTTTTCGAGCGGCCGCGGCCGAGGTACCAGGATTATAGTTAGAATTTACGGACTGGGT  
AGGAAGACTGGATAGAAATCTAAAGATTGCTGATTCAAACACAATGTGGTTTCTTTGCTT  
TATTGTCACAGCTCTGAATTCACAATTATTAGTTAAATTCATAGGCACTATAACTTTAGA  
AAGCACCTTCCCAAACCAAGTATTAAGTGATTTATTATAATTTCTCTGACTTCTTATAGA  
ATTGACTTTCCAAGTGTTTCATGAGAATTATTGAGAAATTGCTACATAGTATCATCTCAGC  
TCTGTCCACATGAGCTATCTGTACCTTGTCTTAATGAATAATTGTTTCAGTAGGAATATT  
GGTTTTG

Sequence 1682

CCCTTAGCGTGGTCGCGGCCGAGGTACCCAGNGCTTTAACTGAGTTGGGATTTTTTTTTTA  
ATGTTATANCATTTAATAGGAAAAATCATTTGAAGATCATTTATCTTTTGNATAACTGGA  
ATTGAAAATGTCAACTAATTATACAGTGTTTTTCCCATAAAACACAATTTAGTGCCAGG  
AGAAAAAAGAACTATTTCTTCAGATAACTTTATATGTGTCTTTTTTTTCCATTAAAAAT  
TAAATAGCCCAAAGTATGTTCTTTTGGCCTTAA

Sequence 1683

CCCTTTTCGAGCGGCCGCGGCCGAGGTACTAACATCAATAAGTCGAGAAAATTATATTAA  
CTGAAAGAAAACAAAAATAATAGAGAATTTTATTAACGTATTTCTAATGTTTCTCTTCAT  
GTTTGGAGAAAAGCTGCCACATAATTAACAATTCTTACCCTGTAAACTGATTGTCTT  
CCAATCTCAGGAGGTTTACATTAACAGGAATATAGAATAAGAAACAGGCCTATGGCCGGG  
CTCCGTGGCTCACGCCTGTAATCCCAACACTTTGGGATGCCGAGGCGGACGGATCACGAG



Table 2

GTCAGGAAAT

Sequence 1684

CCCTTAGCGTGGTCGCGGCCGAGGTACTCCCCAGCAAAAACCAAATGCCAGACACATTT  
TATATAAGAATGAACAATTAATCTGAATAATAAAAAATAAGGCTTATTTATAAAGGTTAAG  
TTGAATAGTATATACATGCACATATATGCAAATATATATAATTCAGATATTTTATCTTTC  
TTAATGCTTACATGACTCTAAACTCTCACAATTTTAAATTAACATAAAATATGACATAA  
TTGTAATTTTTTTCAGCTTTATACATCAGCATTTTACCATCATGAGAAAAGATATTCTTTT  
TCTTCTTTTTAATTTCCCAA

Sequence 1685

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATGATAATTTTTCTAGTCTAGAGCTGGATGA  
GAACCTGCTCCGTTCTGCTACCTTGTCAAACCCACCTACACCCCTGGCAGGGCAGATCCA  
GGGGCAGTTCTCTGCCCCAGCCAACGTTGGCCTTACTTCTGCCACTCTGATCAGCCAGAG  
TGCACCTTGGGGAGAGAGCCTTCCCAGGACAGTTTCATGGACTTCATGACGGCAGCCATGC  
CTCCAGAGGGCCACATCCTGCCCAGCTGCTGA

Sequence 1686

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGTTGCACTGTCTGAGGAGGTGCCCTTCAAGC  
TAGCACATCAATACTAAAAAGAAAAGCATGCCGAGAGCTGGCAGAAAGAGGCTTCAGGC  
AGAAAGAACAACAGCAAAAGTCTAAGACTGGAAAAGGTCTGAGTTGTTTCAGGAAACAGA  
AAGGAAACCATTGTGGCTGGACCCGAGGTAAGAAGCAATGAGGGAAAGGTGGGAAAAGAG  
CAAGGAGGGCCCGAGGTCTGGGATGGAGTTAGGCTGTTAAGTGCTTTGAGAGCCTAACA  
TCCTAACTCATTGGGAGGTTTTAGCAAGGGTAGGAACATGGT

Sequence 1687

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAGGCTTTGATGTAGGACCGTCTACGTCATGA  
GTGAAGAGCGGTAAAGTGCCAGGGTGCTGGTGGACAGAGTGAATAAGAACATGGTATAA  
GATGAGGTTATGACTATATTGTGTAGAACCCTTATAAGCCACTTTAATGATTTTGGGTTTT  
GTTCTAGACGGGAAACCATTGGAAGGCCTTGAGAAGAGAAAGTGATGTGATAGGACCTACT  
CTATCTTCTATGCAGTGCATAGACTTGGGGCCAAGGGTAGATTGAGAAAGACTAGTTTAG  
AGACTGTTATA

Sequence 1688

CCCTTCGGCCGCCCGGGCAGGTACGCGGGGGACACATTGAGAGGTGAGCCCAGAGCGGGT  
AAAGTGGACTGGGGGAGAACTTCGGAGGATGTTTCATGTCCAGGAGCAGCCCCACGCCCTGT  
ATGGTCGGTGTCTAGAGCCTCACAGCAACTAAGACCAACCCAGCTCTCAGAAGAAGGAAT  
GTCAAAATGTCATGTTCAATTTTACATTAGTGCCTGGAATCTTTTCTTCACAATTGAAA  
TGAAATGTGCTGAAGGAGGTGAATCCATGCATTAATCTTCAGCTCACAAAGGAAATACTA  
CATAAGAAGCAAGACCACAGACTCAAGACGGACATAATTGGATTTTTTTTGGCATGGCCT  
GGAAAGAAAGGTACACACAGTTAACCACAAAACAGGCCTNTNTTGAAAAAACATTGCCA  
TGGACTGNCAGACAGGACCATGGCCAGACCACAAATACCTTTTNGTGTGTGAGCCCCCGG  
GACATGTGAAGCTTTCCCGCTGATGCTTCCTTCTTATATCAAAAGATCACTTTTCACAAG  
ATGAAGCCGACTTAATTTTTTTTTTCAAANCCAATGGATCCCTTGCCAAGCTTTTGGNA  
TANTTTTTCCAGCTTTGTTAAANCTNTNTNGGCATTGAANAATGGGGGGACTTATAAA  
AATTGCTGGATCCCAATAAAANAAAACNTTTTNGGGCAAAAAGGGTTTTATNAACCTAGN  
GGGGGACTNAAGGTTTAAAGGAAAAGTTTNTTTGACCTTTCTTCCACCGNNGGGGTAC  
CTGGGTTTCNCTTTTTTAGAGGGNTTTTACCCTNTTTGGCCTTNCAANAAAGGCCTGAAAA  
AAATTTTNAANNNGCTTTAAAAANGNCCCTGGGATTTTTTAAAGGAACTTTTTTTTAAAAA  
AAAAAA

Sequence 1689

AGCGGCCGCCCGGCCNGGNACGCGGGACCTANCTCGGGACCGGCCTGGAGATGGAGTTTCG  
ACTGCGAGGGCCTGAGACGGCTGCTTGGAAGTTTTTAAAGATAGTTCTCAGAAAGACCT  
GCTGAATTTTACTGGCACAATTCCTGTGATGTATCANGGTAATACATATAACATACCAAT

Table 2

TCGGTTTCTGGATTTTGGATTCTCACCCTTTCGCTCCCCCTATTTGCTTCTTGAAGCCAA  
CTGCAAATATGGGAATCTTACTCGGAAAACATGTGGATGCTCAAGGCAGAATATATTTTG  
CCCTATCTCCA

Sequence 1690

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACCAGAAGGCAGGTTGGGTCTAGAAAGCCCTGA  
CAGTCTAAGAAGGTCCTGAGTTCAGGATACTGAATAGTGTTACTTCACACTCTAGTCAAG  
TGATTCTGAGACCTTAGCATGCATCAGAGGGCTGGTAAAACAGATTGTTGTCTCCACCTC  
AAAGTATGTGATTCAGTAGATTTGGGGTGGAAATTGGAATTGTGGATTTTAAACATTCTTA  
GGTGATGCTGATGTTGTTTGTGGTCCAGGGAGCTCACGTTGAAGACTGCTGCCCTGGGCA  
ATTGGGATCCATGGAATGTTTGAAGTAAAGAAATAAATTATCATGACTGTGTCTAAAA  
AAGATGACATTTAGCAGANTGATGGATATATTGGGAGAGGAAAGGGCCTAAGGATGGTNA  
GGCCAGTTAGAACTTTGAGTANTCCATGTGTGANGTAATCANAGAATGAACCNTTGATTG  
GAGGTGGGAA

Sequence 1691

CCCTTTGAGCGGCCCGCCCGGGCAGGTACGCGGGACATTCAGAGGTGAGCCCAGAGGGGGT  
AAAGTGGACTGGGGAGGACTTCGGAGGATGTTTCATGTCCAGGAGCAGCCCCACGCCCTGT  
ATGGTCGGGTGCTAGAGCCTCACAGCAACTAAGACCAACCCAGCTCTCAGAAGAAGGAAT  
GTCAAATGTGCTGTTCAATTTTACATTGAGTGCCTGGAATCTTTTCTTCACAATTGAAA  
TGAAATGTGCTGAAGGAGGTGAATCCATGCATTAACTTCAGCTCACAAAGGAAATCTAC  
ATAAGAAGCAAAGACCACAGACTCAAAGACGGACATAATTGGATTTTTTTTGGCATGGCC  
TGGAAAG

Sequence 1692

CCCTTAGCGTGGTCGCGGCCGAGGGACTNNNNNTNTNTNTNTNTNNNTAGCGGGT  
NNNTTTTTCTNTTNNANAACTTTTNANGATNTTATNTCCATNANCATNCNCACGCCCT  
NTATGGTCGGTGTNTANAGCCTNACATTNNCTAANACCAACCCAGCTCTCAGAAGAAGGA  
ATGTCAAATGTGCTGTTNCAATTTTACATTGAGTGCCTGGAATCTTTTCTTCACAATTTG  
AAATGAAATGTGCTGAANGAGGTGAATCCATGCATTAATCTTCAGCTCACAAAGGAAATA  
CTACATAAGAAGCAAGACCACAGACTCAAGACNGACATAATTGGATTTTTTTTGGCATGG  
CCTGNAAGAAAGGNACACACAGTTAACCACAAAACAGGGCCTNTCTGAAAAGCCATT  
GCCAT

Sequence 1693

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTCCATCAAGTCGAGGGAGTAACGCCAACTA  
GAATAGTAGCCATCTATTAAGGATAGTTCTGAGGTTTGAATTTGTAAGTATTTTTAGG  
AGCTACGACATGAATATCATATCAGGTAGAAATACTCAGAGTGATCACCTTTTATGAAAG  
TTAGTTCTATCTTTGATGCTAGGAAAATATAACAGTGAATGTTTGCTTTTTGTATGTTT  
TGTCTCCAAGCAGAGGAACTGACAGTTTTATGTTTTAAGTGCCGAAAGTTGTTTTGGC  
TAGGCAGTTCCAGAGTTAATCACTGGGATGTTAACTTGAATTTTTGTCTTTAAATGTTT  
TAGATTTTTAAAACGAAATATACTTCCATTATTTCCAACTGACACCATGTGTTCTGGAT  
TANTTTTANAGAAATGTTTTCCAAATCTCTTGGATTACTTGAAGTCATTGATTTTGAAA  
TATTTAGTTTAGTTTTT

Sequence 1694

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTGTTTTAGTGACCTTCAACATAAATTATAC  
CATTTGAATCACAACCACTTCAGACCTAGGAAGGGCTGGGCCAATTATCCTCCCTCTAC  
AGATGAGGAAACTAAGGGCTGGAAGATGATATGTTTTACCTTTTGTAAAGACAGTCAGAAT  
TAAATCTAGGTATTGTGACTCCATGTCTACAGGACTCTTCCTCAGCTGTTGAGAAATGAAT  
ATCAGGATTTCTTTTCGTGAAAGTAAAGTCCACTCTGCTTTTACCAAAGTGTCTATAT  
CTTGCTAAATAAATCAAGTCTCTAGGTAAGAATAGGTGCTATAATTAATTTGGTGCTATT  
CATTAGATGCTATTTGATTTCCACAGCCAGAGTCTCAGGACTCGAAAGATTTGATTTTT  
CATTTGGACAACATGTTTATGTTTCTTTTGAGACAAACATTATAAACCACCTTCTGTCAA

Table 2

AGAATTCANGTTGCTGGAGAACTCTGTTCATAGCCGTTGTTGGGATGCAAGGGGGTGTCT  
GGGAAAAGGATGGGGNGTTNCAGATCCCNCCACCAAAAGCNCAANGGGTCATTGGTGTT  
TCNCGCCCTTGGANGANGAANGGGANGCATGGGGGAAAAACACANTGGGCNGTGACAGTC  
ACAGCAAGCTGAGGCCCCAGGGCAGNTTCCAACCTCAAGGGCTTGAANANTNTTGGGG  
NGGGNTGGAATCTTCAAGNCCCTAAGNGGTTGAAAAA

Sequence 1695

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTAGTAGTATATTTGAAAAGTGATATTTAATA  
AGAAGCCTGTAAAACCTAAGCTTCTCTCCCTTATTATTTGAAAATTATTTAAGACCTG  
TAGCCCCACATTTTGATGTTGTTAGATTTATCAACATTGTCTGGGTAATGGTCTGTTC  
TATTTAGGGNGGCCTTCTGCTTATGGNCTGGGCTACCTCTTAATATACAGTATTAAAGA  
GTTTTGGTTAACTNTGAACTGCCCCGGGTTGATTAGAGTGATTTCCAGGACAGATCGTGTT  
TTTGAACCTACATTTTTTATTTTCCAATTTAATGGGANTTGAAAAACATTTATTTTAA  
TAATGTTGTTTCTAAGGCCCCANGGCACAANTGGGCTTCACCGCCNTGGTNAATCNGNAAC  
CACCTTTTNGGNAGGGGCCCGCAGGNGGANCNAAGATTCAACCCNTTGAGGGGTCTGCTG  
GAGGTTTCCGANGAACCCTTAAGCCCTTAAGCCCAACCATTTGGGTTGAAAAACNCCCNNTTC  
CTTTTCTTAANAAAANTNCCCA

Sequence 1696

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATCCTTCTGGGATTCTAAACCTCCCTTCTCC  
AAATATGGCCTTGTTGTANAGTATAGTCACCAGGAATGATTAACCAACATTNAATCTGAG  
CTAAGAGCAAANACAAACAAGTGACTGCCTAANACTGTATCAAGTAAGNGCACAGCACAC  
ACAAACACACATGANTTACTTGCTTGCCACTTTGGCCTTAGGAGTATAAAATNCCAGAT  
TTGAGACAAGATNCATTTAAGNTTNCACCTTTCACACACAACACAATCCTGTTANAGAAA  
AGGAATGTGTNGTTCCTCCTTTTTGNCCTTCAAACAAAAGGAATTATTTAAAAAATGA  
AAACCCATTTCTACCCCGTTAACAGGGNCTGGGGGATTATCCTNTGGGGACTTTGGTTT  
TTTCTTCCCCCNATGCCAAGGGATTACCTNNCTNGGGGGGGGAG

Sequence 1697

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTCAAGCTTTGGCTTTTCTGAACTTTCCTTAT  
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TCCAGGAAGGCTCTTATGTGCGCTGGGTAACTTACTCTTCAAGTCTAGTGACCTTTTCT  
CAGAAGCTTTCCTGATATCTTCCATTTCAACCCACTGCTGACTTATTAATTTCTAGA  
ATTTTATACTTTTACACTACATTCTCTGTGTTGTATTCTTATTACAGGGTCTGCTATTT  
AATTTTAAAGTTCCTTGAAAATAGAGACAATTTCAATTGGTTTTTCATCAGTTTGGTCCAA  
GTNTATATAACATAGATGAAAAATAGATATTTTGGGATTAATATATATTATATAAAATA

Sequence 1698

CCCTTAGCGTGGTCGCGGCCGAGGACTGACTGCTACTGGTAGACCTAGGGTCAGCTTTGA  
GGACTGAGGTAACCACACAGGAAATAAGTTTTGAGGTCTGATTTTGAAACAATATTGGA  
AGACCATTCCTTTGTGAGATAGAACTTCTCCATTTTAATTTTAGTATTTAAGCTTTTC  
CTACAGGTCAGTTGGGAATAATTTTATTTAGGGACTCACAATCTTGAATTTTAGCTAA  
ATGCCTTAAGAATAAAATATTATTTAAAAAGTATTAAATGCTGTGATTCCAAACAGTTT  
TCTTGTCAAGGATGAAGNAATNTAAAAAATATACCACCCTGTCTCGGCAACTNGGAAAA  
AAGCCCCATTTTAATTTTCCATTTCCCAAAATGGANGAGACTGGAAAAATNAAAGGGCTT  
ANGGACCCACAAATCCCAACCCCTNCCNCCAAAANCTNCTGGTCTTGGTCTTTTTGG  
AT

Sequence 1699

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCACTTCTAGATGTGAGATTGTTGGCAAGCA  
TTTCGCTTTTGTGAGCTTCAGTTTCTTATCAATACAGTGCAGCTAATGCTACCCGGCTT  
ACAGGATCATGGTGAAGATTCAGAAGAGGTGACATAGAGCAAGTGTCAGGGGNTGTGTC  
TGATGCCAAGGAGGCACATGGTAGGTGAGTTCTCTTCATCCCTTGCCCTTGCCCCCTAGAAA  
AGGCATTTGTTTAAAGTCGCTTGCTGCAATCCATCATCCCCCTTTCTCCACCTNTACA

Table 2

GGNTNTNTCCCACTATTTCTCCCTAACCTTTTNCCTTGAANGANTTGGGGAAATTTGG  
GGTTTC

Sequence 1700

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTATCTTTTCGGGGTTTTCTTATTCCAGAAAC  
CTTGTTATTGCCGTGTAATAATGCAAATGAATTTTGCACCTATTTTGTTTTATTNCTCTTG  
TGTTTTAGAAATGTTTTGATGCATCAGAAATTGAGAGATCAGTGATTTCAGTTCTCCTG  
TCACACCCCTTTATGATAAAATATTTTGGCCATTTCTAAGGAGTAGTTAGAGGGAAATCC  
TTTCATAAATCANTTTCACT

Sequence 1701

CCCTTAGCGTGGTCGCGGCCGAGGTACACACAGACACCTCAGGACCCAGCAAATCCAA  
ACCTGATCTATCCCTTCACTACCAGATAGCCTCCTCTCTATCCACTTAAAGGCACA  
AGTGTATTGCCTATTTTCCCTACCAAAGTTGGGACCCCTTCTTAATAATCCAGTTTC  
TCATCCTCCTAATCTACTTGTGGGAAGATAATTCTGGCATTCTTCAGAAATGGGTAAAA  
GAGATTGATAGAATTGTTAAGGATGTTTCCAAAATATTTTGGAAAGAATGTATGTATGT  
CTACATTTAAGGCTAATAAGCCGTGAGCCTTTCTACTCTAGACATTNCAGGGTCCTAAAA  
AATAATGTCTAAGAGTGACATCAGCAAAATGGGTGGATTAGGGAACTGTCCAGGGCCAT  
TCCCTTTCCCAAAGCCAAAA

Sequence 1702

CCCTTTGAGCGGCTCGCCCNCGCAGGTACAGAAGAANGAAGGGGGCTGAGTCTTGCATA  
CTTCTACTGCCCCCATTTTACCTGGTCCCTAGGAGTAGTGTGAGACTGGGACAAGTGATC  
TGGGATTACACTGATTAGCATGCTTCACAGGAGGGAAATATAAGGAGAAAGGAAGAAGTA  
TTTCTCAGTAACATCCCGAGTTAGCCAGAAAGGCTCAGGAAATCCCTGTTTGGTGATGAG  
ATCATTGTATCATTGTTTAGAGATTTCTAATTCATGATGCAATGTATTTTAAATGGTAA  
GTTTTAGAAAGCTTGTTTTATAATTCTAACTCTTTCAGACATCAGTTGTGTATCTAAT  
CTTTGTTTACAGGACCTACTCAATCTAAATCAGAAAAAGAACAGGCTGAAGCTACAAAT  
AAGATAAAAAGAA

Sequence 1703

CCCTTTGAGCGGCCGCCCGGCGCAGGTACGAAGTGTGTTTCAGAGTGGCGAGGAAGGGCA  
AGTTGTTAAGATTGGTTGTTGAATTAGTTTCTGTTTGATGTTAAAGAGAACATAGAGTAA  
ATGATAATCCCTCGAAAGTGGAGATCTTGGCAGGCTGGCGCCTGGTGGTATAGTAGAAAT  
CTGAGAAAGGGGGAGGATATTAAGTCAGTTTATCAGGTAAAGTTGAATGAAATAATCAA  
GTTTAAGTGCGTCTTGGGTATTTGCAAAGATGTATAGATTAAGGCTAAAAGGGTTGGAGA  
AATAGATTTGGGAGTTACCTATGATTTTTTGGTTATTCTGCTCTCANGATTGAAAATA  
AAGAATCTCAGAACTGCATTTCTAATTAGTGCCATAAAATCTTTATTGATGCCAAGTTT  
TTGGTTTTCTTGNAATTGNGGTANGTAGAATTCTAAATGAC

Sequence 1704

CCCTTAGCGTGGTCGCGGCCGAGGTACTCTCTTTCCAACTTTCCATGGCCACCTTTGCC  
TGAAGATTGAGCTATAAATCCTTTTCAAACCTGACAAGCACAGCCTTTCAAACATAAC  
CCTAACTTATTTTACCAATCTTGTTGCTCACATAACTCTGTATTATGTGCTTTAGCTAGT  
AGACAATTTGATGCTTCTTTTCAAATCTTTTGTATCCTGTTCTTACAGTTAGCAGTT  
TCCTCTCTAGCTATCCTGCCTCTTCTCTTATCTTTCTTTTATTTTCTCGTTATTTT  
TGAATATATAGATATTATTTATTAATTTATCTGTTTTCTTCAGCTTCATAACATTTATGT  
GTCATTTATAAACTTTAGAACTTTGTTAGAAGTTTAATTTCTTCTGTTTTTATAGTGA  
GTAGAGAGAATTATTTTACATTTATATTACTCTAAATCATGCTAGCCAAGGAATAATTT  
ATCTCATTAAATTA

Sequence 1705

CCCTTAGCGTGGTCGCGGCCGAGGTACACTGAGCCTAGAATATCTTGTGGGGTCAAAAGG  
TAAGGCAGTGCTCAAAAAACAACAGTAAATGGCAAAAATACATAGAACCCAACCTGAAG  
GGCATCCTAATGTAAATCTAGAAAAATCTGAGCACAAAATGTATTATAGTCATGGGTTA

Table 2

TAACCAATATAATGAGAATCCAAGAGTCCAGACTGATTTTTAAAAAATTGCATTTTTTCA  
ATATAAAAGAAAATATCTTCCTTATAGTAACATTTTAATTGACAAATGTAGAAGTAATGA  
TGGAAGTAGAAAATCACTGTTTGGCACACACTGTAGTAATAACTGTTTCAGACAAGAATT  
ATCCACGAATGCTAAAATTAGTTTGGTGAAAGTATGATGAGAAACAAGATACTTACATAG  
GTCCAAAGCATNTCCTGACAAGATACTTATTCATTACACAGAAAAAAAATAG

Sequence 1706

CCCTTTCGAGCGGCCGCCCGGGCAGGTACACACTAGCTGATAAGACACTGTTGCCCATAA  
TGTCTATTTATTGGATCAGCAATTTATAAGTCCCACATTCTCATGCCACATAGCTCTACA  
CAGCTGCAAAAATATACCATAGCTTGCAGGTGATCATTGGT.TGATAAAAGATATTGAGT  
CGCTCATCTTGTGAAAGTGATCTTTGATATAAGAGGAGCATCAGCGGGGAAGCTCACATG  
TCCCGTGGCTCACACACCAGAAGGTATTTGTGTCTTGTCTGCTGTCTGGCAGTCCAT  
GGCAATGGCTTTTTCAGAGAGGCCTGTTTTGTGGTTAACTGTGTGTACCTCGGCCGCCGA  
CCACGCTAAGG

Sequence 1707

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCAACAGCTTTTCAGCAGATGTTAGCATTAC  
ATATGAGAAAGTTGCAGCAGTGTGCACATTGTGCTTCTGCCCTAGATCCTTATGTAAATA  
GGACGTCCGTGACTTGATGTTGAAATGACCTTTCAGGCAGTATTCTGTTGCCACATGCCT  
GAGCTTGTATCCCAGAGTAATTAGACGTTTTGACTTACACATCTTGGTATACAGTGTTTA  
TGCTAATTATAAATGTCTGAAAGTTTCTGAACTTTTTCTTTGTAGCTTTTTATCAAAG  
ACAGACAGGAGGTTGGGAGGAGGGTGTGGATTGTGGTCTAAGCCTTTGATTTTCAGTC  
TCTCATTTTTGGAATGAAAATTAATACTGCTTTTCCAGTTGCCGAGACATGGNGGGATA  
TTTTATATTCTTCATCTTGAACANAANAATGTTTGAATCACAGCATTTTAATACTTTT  
TAAATAATATTTTATTCCTAAGGCTTTTANCTAAAAATCAAGATTGNGAGNCCCTAAAT  
AAAAATTA

Sequence 1708

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCCTGTTGTCTTCATGCGTAGAAAGGATTGAG  
CCANCTGAGCAATCTCCAAGGTTATCTCAAAGACAATATTTTATTTTATTTTGTCTGA  
GAACCAAGTGTTTTANACTCTGTATGACCTAAGACTGCTGGAAAGAAGGAAGATCTGGTTA  
AACTAACACAAAGAGCTCCTCAGAGTGTAGTTTTCTTACCTTTATTGCTTCCTTGAGTTC  
TTATATTGNAGNGGAGACTGAGTCCCTCCATACTGCCTGGGCTCTGATTAATAAAGACCT  
CTGATATCACATGCAATGAAGAATAGANAGTTCTAGTATGTAAAGCA

Sequence 1709

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCACCAAGTCCATTTCTGAGTTTAAATACCC  
ACCCACCGAACTGGGGTGTGACCTTCAGCAAGATTGTGTTCTATTTTAGTTTGTTTA  
AACTTCTTCAAGTCTTCATTGTCTCATCTGTAAAGTGAGGATCACAATGGGATCCCACTT  
CTAAGGTAGGTATGAAAATTAATGCAGTCCTGAATGCCACGTGCTTAGCTCAAGTCCCA  
GCTAAATGGAGGCTACAGAGGACATTGGGTGAAACCACACCTTTCTTATCTTGTTGATGG  
TCCCAACAACCTTGGGTGGGGTAGCCTCTTTTGTCTCCCTCATTGGGCAGTTACAGAAAG  
CTACACCTGAGAGGTCACACATCTAGGAAGTAGAAGAACCTGAAC

Sequence 1710

CCCTTAGCGTGGTCGCGGCCGAGGTACTATACTTGGCCCTCTATAATTCTGGGTGTAATG  
TCAGTTGGGTTTCAGGCACATTACCTGCAGCAGCAACAAACACCTTCCTATCAAAGTCTCA  
ATTTCCCACTCTAAAATACCAATATGTCAGTGTTGAAGTTAAATTAGGTTTCTAACCCTAA  
TGCANGGAAAAAGAGAATTGATGGCANGTCCTTGATATTAATTAGTTGAGTAAATGTTGA  
AAATGACATTTTGAACAAAATATTGAAAAAGATAACATGCNCGGTCANATGTNCAGCAAG  
CCAAAAGAAGAAAGGCTTTCCTGAAAAATGTAAAATTTCAAAGAAGATTTTTGAA

Sequence 1711

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGACATTCANAGGTGAGCCCAGAGCGG  
GTAAAGTGGACTGGGGAGAACTTCGGAGGATGTTTCATGTCCAGGAGCAGCCCCACGCCCT

Table 2

GTATGGTCGGTGTCTAGAGCCTCACAGCAACTAAGACCAACCCAGCTCTCAGAAGAAGGA  
ATGTCAAAATGTCATGTTCAATTTTACATTGAGTGCCTGGAATCTTTTCTTCACAATTGA  
AATGAAATGTGCTGAAGGAGGTGAATCCATGCATTAATCTTCAGCTCACAAAGGAAATAC  
TACATAAGAAGCAAGGACCACCAGACTCAAGACGGACATAATTGGATTTTTTTTTGGCCAT  
GGCCTGGAAGAAAGGTACCCACAGTTAACCCACAAAACAAGGCCTTTTNTTGAAAAA  
GCCATTGGCCATGGACTGGCAGACNAGACAANTNNCCAGGACNCCAAATTNCCCTTTCTG  
GGGGTGTGAGTCACGGGACATGTTGAGCTTTNCCCGCTTGATGCTCNTNTTAATTTCAA  
AGATCACTTTTCAAAGAATNGAGCNGACCTCATTTTTTTTTTTTTNTTCAAAACCCATGN  
NTTCCCCCTTGCNAANGCTTTTGGNTNTTTTTTTTGAAGCNTTGGNTAAAANCCTTTTT  
TGGGCTTGAANAATTNNNGGGANCCCTTTNTAAATTTNGTTGGNTCCCAATAAATTAAN  
CATTTTTGGGGCAANAAGNGNTTTTTATTAACCTTTTNGGGGGGACTCCCCCCCCC

Sequence 1712

CCCTTAGCGTGGTCGCGGCCGAGGTACTATTTTTTTCAGTTGTAAAAGTAAAAGAGCTA  
GGTTTTATGAACAGGATGGGAAGCCAGTTATATTCAGTTATATTCGATTTCTGGTTTTA  
ATAAACTAAAGAGAAAAGTGCTTTTAGGCCAAAATCCTGAGATTTCTAATAACAGACTG  
TTTTTTTCAATCATCTTATTAAATAACCTATTGCACACTGATTACATTTATTCTTACTATT  
TTCTTTATTTTTTCTGGATCATTTTTTCACAATTTTATTTTTTACAGCATTCTCAATACTT  
TTCTTCATGTTTCATTAATGTTCTGTATATAGTCCGAATTCTGTAGCAACCTCTTTAGGA  
AGCTCTTTATTAATACCTAGCTGAAATATAAAAAAATATTGTAAGTGTAAACTACTCGA  
TTTTATNGGGGAGCCCCGTTTGGCTTTANGTGGGACCTTTTTAAAACCTTCCACCGGNT  
NGGGGATANTTTCTNGNATTTTNGANGGAAAAAGNAAAAACCNNTTTNAAAGGGNAATTT  
CTTTNTTANGAAAAAAAAGGCATTTTCAAAAAANANTAAGGGTTATTTTTNTTTNTTT  
AAAAAAAAGNAATTTTGGCTTGGGAAAAANANTTNGNGGAANTTTNNCCCAAAAAANNT  
TTTAAGGGTTTT

Sequence 1713

GAAATAGTTCAAATCATGGCACATTGAATGTCCTCACTGGATTTTTAGGAATGTGTTTAC  
TGAGACAGCCAAATCCTATTTTCATTTTCTTTGGCTCATTGCATTGGCTGTAAATTGGAGA  
TATTCATTTAATATGTGAGTCAAAATTTATTTNCAACATAATACTGCAGNGTTCTGT  
CACAGAAATAAAATTTTCTTATTTATTTCTTAATACCCTTGCTTTNACTTTNTNCTTN  
CACTTCTTCTATTTTTATTCTGGGAGTAATGTGGAAAAAGGGTTTTNCCAANAAAAAGA  
NTTTNGCCATTATTGCCCATTAANTCCTAACNNGATGGAANTACCTTTTTTT

Sequence 1714

CCCTTTGAGCGGCCGCCCGGGCAGGTACCAGAAGGCAGGTTGGGTCTAGAAAGCCCTGA  
CAGTCTAAGAAGGTCCTGAGTTCAGGATACTGAATAGTGTTACTTCACACTCTAGTCAAG  
TGATTCTGAGACCTTAGCATGCATCAGAGGGCTGGTAAACAGATTGTTGTCTCCACCTC  
AAAGTATGTGATTAGTAGATTTGGGGTGAATTGGAATTGTGGATTTTAACATTCTTA  
GGTGATGCTGATGTTGTTGTGGTCCAGGGAGCTCACGTTGAAGACTGCTGCCCTGGGCA  
ATTGGGATCCATGGAATGTTTGAAGTNAAGAATAAAATTATCATGACTGTGTCTAAAA  
AAGATGACATTTAACAGAAGTGATGGATATATTGGAGAGGAAAGGGCCTAAGGATGGTGA  
GGCCAGTTAAATACTTTGAGTAGTCCATGTGTGANGTAATCAGAGAATGAGCCCTGATTG  
GAGGTGGGNAAGCCTGGGGCCTGTTGAATCTTTCATTTCTNTTTAAAGGGCTTATNNTG  
AATTTTNTTTTANGGNTTGGCCAAANTTTNAGGGAAAATAAACCAATTTCAAGGATGGGC  
CNCCTTTTTTTTTGAGTTTTNNAAGGTAAAAACNAAAAANANACCTTTTTTNANNNATA  
GGGTTTNGGCCCTAAATNTTNGGGGCNGGCCCCCCCCCCC

Sequence 1715

CCCTTTGAGCGGCCGCCCGGGCAGGTACCTTGCTACACGGCCGGGGGCCATTGAGACTG  
CCATGGAAGACTTGAAAGGTCACGTAGCTGAGACTTCTGGAGAGACCATTCAAGGCTTCT  
GGCTCTTGACAAAGATAGACCACTGGAACAATGAGAAGGAGAGAATTCTACTGGTCACAG

Table 2

ACAAGACTCTCTTGATCTGCAAATACGACTTCATCATGCTGAGTTGTGTGCAAGCTGCAG  
CGGATTCCTCTGAGCCGCTGTCTATCGCATCTGCCTGGGCAAGTTCACCTTCCCTGGGAT  
GTCCCTGGACAAGAGACAANGGAGAAAAGCCTTAAGGATCTACTGGGGGGAGTCCCGGANG  
AACCANTCTTTTTNTCCCGCTGGAACCCATGGNNCACTGGAGTTTCCCTTTANTGCTTA  
CTTTCNACNTGGNGCATTCCCTNTGGAAAATTACAACCCAGNTGAGAAAATTCCTNTGAA  
AAATTTTNGAAAGTTTNTNTGGGGNTTCATTGNTTTTAANCNTTGNITCCAAGCTTTTCC  
CAAAAAATTNCCCCANCAAAAANAATTTNAACTNNGNATNCTTGGGAANGNAGGAAAANN  
AAACTTNNNTGGGNNGGTAAACNTGGAACCCNTTTTTGGNTTGGANAACCTCCCCAAGG  
GGCTGGANGTCANTTNTNTTGGGAAANCCGCNAANAAACTTGGGGNTTTTTCCCTTTGC

## Sequence 1716

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGCGTGCCCTGCAGGTGGCACACAAAGCTGAG  
ATATTGTCACCTTTGGGAGCACTGTATTACAACACTGGCCGATACGAAGAGGCTTTGCAG  
ATTTACCAGGAAGCTGCAGCACTTCAGCCTTCTCAGAGGGAGCTCCGCTTGGCACTGGCT  
CAGGTTTTGGCCGTGATGGGTCAGACAAAAGAAGCTGAAAAGATGACCAATCACATTTGT  
GTCAGAAGAGACCGGATGCCTTTGAATGCTATCCGCCTCTTGTCAAGCCCTTCTATAGCA  
AGCAAGGAGAACCACGACAAGGGCACCTTGNTGCTNNTAGACAANGCTTCTCCAGCTGAA  
ACCCAAANGGACCCAAAAAGTCATTTTCTGAACTTTTTTTNCAAAAAGGG

## Sequence 1717

CCCTTTGAGCGGGCCCGCCGGCAGGTACAGGCTTTGATGTAGGACCGTCTACGTCATGA  
GTGAAGAGCGGTAAAGTGCCAGGGTGTCTGGTGGACAGAGTGAATAAGAACATGGTATAA  
GATGAGGTTATGACTATATTGTGTAGAACCCTTATAAGCCACTTTAATGATTTTGGGTTTT  
GTTCTAGACGGGAAACCATT

## Sequence 1718

CCCTTAGCGTGGTCGCGGCCGAGGTACTGTCACTGTGTACACAGGTTAGTGAGGCTTGA  
AGCCCTTGCTTTTTACACTTACAGTTGGTATTCTCTGCAGCACTTGAAGTGATCATGCCT  
TTTTCTAGAAGAGTTACCTACAGCAGAAGTGTTAAATGGAAGAGATTTACTTCCACTAT  
TNCTGGGGGGATTCTTGTACCTTGGCTTACCTGAGGACCTACAGTTCTACATTTACT

## Sequence 1719

CCCTTTGAGCGGGCCCGCCGGCAGGTACTCTTCTTCCAGAGGTTTCCCCATGCCCTCT  
TTTGGACTTGATGGGGGTCAATTTGGGACAATAAGGCCTGATAACTCCTTGGACTTAGGAA  
GCGAGAGAGCAGGAATCAAGAAAAGC.TTTTGTGTTTTTGGTTTGTGTAAGAAAATATGA  
TGGATTGAGATAAAATTTTCAAAATAGGCCCAATGAAGAAGAGCAGATTCAAGGAGTAA  
AGGATTATT

## Sequence 1720

GATATCTGCAGAAATTCGCCCTTAGCCGTGGTCGCGGCCCGAGGTACTTCTATACAGTGG  
GAATGCTACTCAGCAATGAAAAAGAAAAAGATGCAACAACCTGGATAGACCTCAAANGCT  
TATGTATAGTAAAAAGGTCAACCCTTAAAAAGGTATATATTATATGATTGCATTTATATA  
ACATTCTCAAAATAAAAAAACTATAGAGGATGAAGAATAGACTAGTGATTTCCANGGG  
CACAGGGACAGGGTAAGGAAAAGAATTGGTAGACCAATGTGAATGCCAAAGAAGGTCTTC  
TGGTGTGGATGGGAACCAGTCTGTATCTTGGATTGGGGGTAGTGGGCTTCTCAAATC  
TATGTATGGGAATAAATTAATTAATAATTAACCTTATACCCNCCAAATNACTGCAGGT  
TTAAAAATGGTTTAAAAAAAATGGTTGNAAACTAAGTTAAAAATATTTAAGTCTAGC  
CTAACCAATAAATGAACCAATGTCAACTTAAGTGGTTTNGGGGTATTATACCAGCTAAAA  
TAAGAATGTCAATTCATTGGGGNCCAGGCCGTGGGTGGCTTCACACCCTATAATCTCAACC  
ACTTTTGGGGANGCCCA

## Sequence 1721

CCCTTTGAGCGGGCCCGCCGGCAGGTACCCCAAGAGATTATTCAATCATTGCTTATGA  
CTGTGGCAACAATTTTGTACCGACAAGAACTCTGGAGAAGTCATGACAGTAGGAATCA

Table 2

ATGCTATAAAGGAGATAACAGCTCGATGTCCTCTGGCCATGACTGAAGAACTTCTCCAAG  
ACCTGGCTCAGTATAAAACACACAAGGATAAGAAATGTAATGATGTCTGCTAGAATTGGA  
TTCACCTCTTCCGAACACTGAATCCTCAGATGCTGCAGAAGAAATCCGGG

Sequence 1722

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACCATAGATCACTGGTAGGGGAAACAAAAGCAA  
AAGCAAAACAAAACAAAACAATAGATCCTGATGACACAGGTCTATTTATACAAACGATTG  
AAGCAAAATCAATTGTAACGTATCAAGTTTATGCAGGGAGAAATGACAATTCTATGTC  
ATGTGACTAGACAATATGGTGACAGATGGGTTTTGGAAAGCTTCAAAATAATTGGTGAT  
GTTTAAACAGCTCATAGTGCCCATTACACATACCGTATGGGCCCGCCAATTATTTCTTTC  
CAGTTTCTGTTGCCAAATGCTTGAATTCAACCAACC

Sequence 1723

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACAAAAGCTGAGGGAAAAAGTTTCAGCTTCAA  
GCATTAACGTTTTAGTTCATAAATCTGAAGGAAAATAAGAGAAAAATAAGGCATTAAGA  
GATATGAAACAATGTAAAAATGAATATTTCTTTATGAATCCTTGTAATATATGACAGT  
ATCAAAGCTCAGAAAACTAGTTTACTGGGGAGGATCACGAAGGTCAGGAGATCTAAGACC  
ATCTGGCTAACACGGCGAAACCCTCTTCTCTACTAAAAAATACCAAAATTAGCCAGGAG  
TGGTGGCGGGCACCTGTAGTNCCAACTACTAATGGGGCTGANGCAAGAAAAATGGTGTGAA  
CCCCGGAGTCAAAAGGTTGCNGTGAGCCCCAATCGCNCCTTGACTTCAACCTGGGCG  
ACAGAAAANAGACTTTGGCTTCAAAAAAAAAAAAAAAAAAAGGAAAGGAAAAAGGAAA  
CCGGTTTAAG

Sequence 1724

CCCTTAGCGTGGTTCGCGGCCGAGGTACAGGTAAGGGGGAAGTTCCAAAGCTGTTAGTCAC  
CTTGTTTTATGCTGATCACCCAACCAGATCTANTGTTTGTGTTCTAAGAACTTTAATGT  
TTTGGAGGAAATATCTTGTTGGCCTTCAAAAAATCATTCTGTGAAATAGTTGTTTCTACCT  
ACATTCGTCTCATTAATTTTCTACATACAGCAGAATTCTGCATATATTAGAGGTAACCTC  
AGTCAGGGTGTATGGAGGAAGGTGACCCATGGTTTACCATCTTGCCAATAGAAAAACCA  
ATAGGAAGTCATCTAACCATCATTTCGAGGGGATTGAGGTCTGTCTATAGGGAGAACAACT  
AAAGAACTGGACTTTTGCTTTCAGTCAAGATGGAGTAACAGGGACTAAATTTACCCTNCC  
ACCTGAA

Sequence 1725

CCCTTAGCGTGGTTCGCGGCCGAGGTACTGCCCGCAGAGGGCCTGGGTGAAGGGGGCCACC  
CANCAAGGATGGCAATGTGTATGGGAGGAGAGCCGCTTGCTTCTAGAGGCTGAATGCCT  
GTCAAATGGAGAAGGCTTNCATTTACTTCANAAAGCTACACTGACTCTACTAAAAGGCC  
CTTTCCTGCTGGCTTTTAGGAAAAGAGAGAATTCCTCATCAGTCTNAAAATCACAAGCA  
ACAGAAATGGGAAATCGTTTTCTAAAGAAATGAAATGTGTTGAATTCANTAATACTCTT  
TCATCTTCCCTTANC

Sequence 1726

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTTGCTACACGGCCGGGGGCCATTGAGACTG  
CCATGGAAGACTTGAAAGGTCACGTAGCTGAGACTTCTGGAGAGACCATTCAAGGCTTCT  
GGCTCTTGACAAAGATAGACCACTGGAACAATGAGAAGGAGAGAATTCTACTGGTCACAG  
ACAAGACTCTCTTGATCTGCAAATACGACTTCATCATGCTGAGTTGTGTGCAGCTGCAGC  
GGATTCCCTCTGAGCGCTGTCTATCGCATCTGCCTGGGCAAGTTCACCTTCCCTGGGATGT  
CCCTGGACAAGAGACAAGGAGAAGGCCCTTAGGATCTACTGGGGGAGTCCGGAGGAGCAGT  
CTCTTCTGTCCCGCTGGAAACCATGGGTCCACTGAAAGTTCCTTATGCTACTTTTCACT  
GAGCATTCTATGAAATACACCCAGTGGAGAAAAATTCTTGA

Sequence 1727

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGGACACATTGAGAGGTGAGCCCAGAGC  
GGGTAAAGTGGACTGGGGAGAACTTCGAGGATGTTTATGTCCAGGAGCAGCCCCACGCC  
CTGTATGGTTCGGTGTCTAGAGCCTCACAGCAACTAAGACCAACCCAGCTCTCAGAAGAAG